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- TAT 24-48 hours on most antibodies
- Technical Component Only or with Global Interpretation by Lucent Pathology Partners.

| Stain Name                      | Synonym/Clone             | Description                                                                                                                                                                                                                                                                                                                                   |
|---------------------------------|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| A-ACT                           | Alpha 1-Anti-chymotrypsin | a1-Antichymotrypsin; histiocytes; pancreatic pseudopapillary tumor                                                                                                                                                                                                                                                                            |
| A-AT                            | Alpha-1-Antitrypsin       | a1-Antitrypsin; inherited A-AT deficiency                                                                                                                                                                                                                                                                                                     |
| Actin                           | (HHF35)                   | Muscle Specific. Helps to identify smooth muscle tumor and myoepithelial cells                                                                                                                                                                                                                                                                |
| AE1/AE3                         | AE1/AE3 Cocktail          | Can be used to differentiate epithelial from non-epithelial tumors                                                                                                                                                                                                                                                                            |
| AFP                             | Alpha-1-Fetoprotein       | Polyclonal Anti-human - Helps to identify hepatocellular carcinomas, gonadal and extragonadal yolk sac tumors and mixed germ cell tumors                                                                                                                                                                                                      |
| ALK-1                           | ALK-1                     | Helps to identify anaplastic large cell lymphomas                                                                                                                                                                                                                                                                                             |
| AMACR (P504S)                   | 13H4                      | Aids in the classification of premalignant high-grade prostatic intraepithelial neoplasia and prostate adenocarcinoma                                                                                                                                                                                                                         |
| APP                             | Amyloid Precursor Protein | Helps with the identification of Alzheimer's Disease                                                                                                                                                                                                                                                                                          |
| Arginase-1                      | Rabbit Monoclonal         | Helps to distinguish hepatocellular carcinoma from a metastatic tumor to the liver                                                                                                                                                                                                                                                            |
| BCL1                            | Cyclin D1/ SP4            | Useful in identification of mantle cell lymphomas                                                                                                                                                                                                                                                                                             |
| BCL2                            | Clone 124                 | Useful in identification of follicular lymphomas and disease progression                                                                                                                                                                                                                                                                      |
| BCL6                            | PG-B6p                    | Useful in identification of follicular lymphoma, DLBCL and Burkitt Lymphoma                                                                                                                                                                                                                                                                   |
| BER-EP4<br>(Epithelial Antigen) | BER-EP4                   | Helps to differentiate carcinomas from mesotheliomas                                                                                                                                                                                                                                                                                          |
| Beta-Catenin                    | Beta-Catenin              | Used to distinguish deep fibromatosis from other benign and malignant fibroblastic and myofibroblastic lesion, primary adenocarcinoma of the bladder and secondary involvement by colorectal adenocarcinoma, distinguish hepatocellular carcinoma from focal nodular hyperplasia, and aid in the diagnosis of solid pseudopapillary neoplasms |
| B-RAF                           | VE1                       | Identifies V600E, V600K, and related genetic changes in the BRAF gene.                                                                                                                                                                                                                                                                        |
| CA125                           | M11                       | Useful in the identification of ovarian carcinomas                                                                                                                                                                                                                                                                                            |
| CA19-9                          | 116-NS-19-9               | Useful in the identification of GI carcinoma                                                                                                                                                                                                                                                                                                  |

| Stain Name                 | Antibody                          | Description                                                                                                                                                                                                    |
|----------------------------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Calponin                   | Clone CALP                        | Myoepithelial marker, in situ vs. infiltrating breast carcinoma                                                                                                                                                |
| Calretinin                 | DAK Calret 1                      | Most specific and reproducible positive marker of epithelial mesothelioma                                                                                                                                      |
| CAM 5.2                    | CAM 5.2                           | This antibody is used to aid in the identification of tumors of epithelial origin and in distinguishing carcinomas from other malignant tumors of non-epithelial origin                                        |
| Carbonic Anhydrase (CA IX) | M75                               | Helpful in clear cell renal cell carcinoma, and strong diffuse-to multifocal staining in large majority of urothelial carcinomas, as opposed to extremely weak and focal staining in collecting duct carcinoma |
| CD2                        | E-rosette receptor; LFA-2         | Pan, thymic, and peripheral T-cells; NK cells; neoplastic mast cells                                                                                                                                           |
| CD10                       | 56C6                              | Expressed in early lymphoid progenitor and normal germinal center cells                                                                                                                                        |
| CDX2                       | DAK-CDX2                          | Expressed in primary and metastatic colorectal and gastric carcinomas                                                                                                                                          |
| CD15                       | Carb-3                            | Useful in the identification of Reed-Sternberg cells and Hodgkin lymphomas                                                                                                                                     |
| CD1a                       | Clone: 010                        | Expressed on cortical thymocytes, Langerhans cells, and dendritic cells                                                                                                                                        |
| CD20                       | Pan B-Cell                        | Labels normal and neoplastic B-cells and if absent from plasma cells                                                                                                                                           |
| CD21                       | IF8                               | Expressed on mature B-cells, follicular dendritic cells (FDC)                                                                                                                                                  |
| CD23                       | DAK-CD23                          | Useful in distinguishing B-cells CLL/SLL from other entities                                                                                                                                                   |
| CD3                        | Pan T-cell                        | Labels normal and neoplastic T-cells                                                                                                                                                                           |
| CD3/CD20                   | CD3/CD20 double stain             | Differentiates between B and T cells                                                                                                                                                                           |
| CD30                       | BER-H2                            | Labels Reed-Sternberg cells, ALCL, T-cell lymphomas, germ cell tumors                                                                                                                                          |
| CD31                       | JC7041                            | Endothelial cells and prognostic marker for tumor angiogenesis                                                                                                                                                 |
| CD34                       | Hematopoietic Progenitor QBEnd 10 | Expressed on lymphoid, myeloid, endothelial GIST                                                                                                                                                               |
| CD35                       |                                   | Follicular dendritic cell marker; CR1                                                                                                                                                                          |
| CD4/CD8                    | MT310 & DK25                      | Used to differentiate cutaneous T-cell lymphomas, including mycoses fungoides                                                                                                                                  |
| CD43                       | T-cell DF-T1                      | Diagnosis of T-cell lymphoma and a subset of B-cell lymphoma                                                                                                                                                   |
| CD44                       | DF1485                            | Transitional carcinoma-in-situ vs. non-neoplastic changes in the urothelium                                                                                                                                    |
| CD45 (LCA)                 | 2B11+PD7/26                       | Labels all hematopoietic cells                                                                                                                                                                                 |
| CD5                        | SP19                              | Useful in the identification of B-cells, MCL, HCL, CLL/SLL, T-cells, thymic carcinomas                                                                                                                         |
| CD56                       | 123C3                             | Neuroendocrine marker, NK cells                                                                                                                                                                                |
| CD57                       | HNK-1, LEU-7                      | Neural and neuroendocrine tumor; thymoma; NK cells; T-LGL leukemia; T-cell subset                                                                                                                              |
| CD68                       | KP1                               | Labels macrophages myeloid precursors, peripheral blood granulocytes                                                                                                                                           |
| CD7                        | Clone: CBC.37                     | Labels immature and mature T-lymphocytes and T-cell Leukemia                                                                                                                                                   |
| CD79a                      | Pan B-cell JBC1171                | Acute leukemias, B-cell lymphomas, and in some myelomas                                                                                                                                                        |
| CD99                       | 12E71                             | Expressed by Ewing's sarcoma cells and lymphoblastic leukemia/lymphoma                                                                                                                                         |
| CD117                      | c-kit (polyclonal)                | Aid in the differentiation of GIST, management of (Gleevec) therapy                                                                                                                                            |

| Stain Name      | Antibody                           | Description                                                                                                                                               |
|-----------------|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| CD138           | MI 15                              | Positive in B-cell precursors, plasma cells, myeloma                                                                                                      |
| CEA             | Carcinoembryonic Antigen           | Useful in identifying the origin of various metastatic adenocarcinomas                                                                                    |
| Chromogranin A  | Chromogranin A (polyclonal)        | Useful in identification of neuroendocrine tumors                                                                                                         |
| Chymotrypsin    |                                    | Exocrine pancreas; acinar cell tumor                                                                                                                      |
| CK19            | RCK 108                            | Useful in the distinction of liver metastasis from hepatocellular carcinomas                                                                              |
| CK20            | Ks20.8                             | Found in colon, ovarian, stomach, bile, pancreas and Merkel Cells                                                                                         |
| CK5/6           | D5 / 16B4                          | Labels mesotheliomas, transitional and squamous cell carcinomas                                                                                           |
| CK7             | OV-TL 12/30                        | Identify positive lung and breast and negative colon and prostate cells                                                                                   |
| CK903           | 34□E12                             | Can be used for the identification of basal cell layer in prostate tissue                                                                                 |
| CK-LMW          | 35 BETA H11                        | CK-8; epithelial neoplasm with simple epithelium                                                                                                          |
| CMV             | DDG9 + CCH2                        | Useful in identification of CMV infection                                                                                                                 |
| Collagen IV     | CIV 22                             | Useful in detecting the loss of parts of basement membrane in carcinomas                                                                                  |
| Pan Cytokeratin | Lu-5                               | stains an intracytoplasmic, formaldehyde-resistant epitope on the surface of cytokeratin filaments. [Lu-5] has been shown to be superior to [AE1/AE3]     |
| D2-40           | D2-40                              | Lymphatic invasion of primary tumors; seminomas and mesotheliomas                                                                                         |
| Desmin          | D33                                | Reacts with leiomyosarcomas and cells such as rhabdomyosarcomas                                                                                           |
| Dog-1           | DOG1.1                             | Used as a very sensitive and specific marker for GIST                                                                                                     |
| EBER-ISH        | ISH                                | Used in the detection of the Epstein Barr Virus (EBV) RNA                                                                                                 |
| EBV             | CS.1-4                             | Used in the detection of the Epstein Barr Virus (EBV)-positive lymphoblastoid cell lines and EBV infected B-cell immunoblasts in infectious mononucleosis |
| E-cadherin      | NCH-38                             | Useful in the differentiation of ductal and lobular carcinomas of the breast                                                                              |
| EMA             | E29                                | Stains normal and neoplastic cells from various carcinomas                                                                                                |
| ER              | EP1                                | Predicts response of breast cancer to anti-hormonal therapy, such as tamoxifen                                                                            |
| ERG             | EP111                              | Used to identify prostate carcinoma; also as an endothelial cell marker                                                                                   |
| Factor VIII     | polyclonal anti-VWF                | Wilm's Tumor - Diagnosis of vascular neoplasms                                                                                                            |
| Factor XIIIa    | E980.1                             | Differentiate between dermatofibroma and dermatofibrosarcoma                                                                                              |
| GATA3           | GATA3                              | Used in the IHC workup panel for unknown primary carcinomas, when carcinomas of the breast or urinary bladder are a possibility                           |
| GCDFP-15        | Gross Cystic Disease Fluid Protein | Breast carcinoma, salivary duct carcinoma and apocrine epithelia                                                                                          |
| GFAP            | polyclonal                         | Differentiate the primary gliomas from metastatic lesions in the brain                                                                                    |
| Glypican-3      | Glypican-3                         | Differentiate hepatocellular carcinomas from normal liver tissue and benign hepatic lesion                                                                |
| HBME-1          | HBME-1                             | Reacts with mesothelial cells, mesotheliomas and some (20-30%) carcinomas                                                                                 |

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| Stain Name                                     | Antibody                 | Description                                                                                                                                                         |
|------------------------------------------------|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| h-caldesmon                                    | h-CD                     | Helps identify smooth muscle tumors                                                                                                                                 |
| HCG(chorionic gonadotropin)                    | Polyclonal               | Identification of gestational trophoblastic tumors derived from the placenta                                                                                        |
| Helicobacter pylori                            | BO471                    | Reacts with H. pylori on the surface of epithelial cells of stomach biopsies                                                                                        |
| HEP-PAR1 (Hepatocyte)                          | OCH1E5                   | Differentiate hepatocellular carcinomas from adenocarcinomas                                                                                                        |
| HER2 DISH                                      | DNA Probe                | HER2 protein over-expression and aids in assessment of patients being considered for Herceptin treatment                                                            |
| HER2 IHC                                       | Herceptest               | HER2 protein over-expression, patients may benefit from trastuzumab (Herceptin) therapy                                                                             |
| Hgb A                                          | Polyclonal               | Useful in the detection of red blood cell precursors                                                                                                                |
| HHV-8                                          | 13B10                    | Identification of the latent nuclear protein of the human herpes virus 8 in Kaposi's Sarcoma, multicentric Castleman's disease, and primary effusion lymphoma       |
| HSV1                                           | Polyclonal               | Detection of HSV 1 in human cellular material                                                                                                                       |
| HSV2                                           | Polyclonal               | Detection of HSV 2 in human cellular material                                                                                                                       |
| IgG                                            |                          | Immunoglobulin G heavy chain                                                                                                                                        |
| IgM                                            |                          | Immunoglobulin M heavy chain                                                                                                                                        |
| Inhibin                                        | R1                       | Differentiation between adrenocortical tumors and renal cell carcinoma                                                                                              |
| Kappa- ISH                                     | DNA Probe                | Reacts with immunoglobulin Kappa-light chain mRNA                                                                                                                   |
| Kappa Light chain                              | Polyclonal               | Reacts with immunoglobulin Kappa-light chain                                                                                                                        |
| Kappa/Lambda Double stain                      | KDB-1 + N/A              | Differentiation between Kappa and Lambda by IHC                                                                                                                     |
| Kappa/Lambda Double stain - ISH                | DNA Probe                | Differentiation between Kappa and Lambda by mRNA.                                                                                                                   |
| Ki67                                           | MIB-1                    | Labels proliferating cells in late G1-, S-, M-, and G2 phases of the cell cycle                                                                                     |
| Lambda Light chain                             | Polyclonal               | Reacts with immunoglobulin Lambda-light chain                                                                                                                       |
| Lambda- ISH                                    | DNA Probe                | Reacts with immunoglobulin Lambda-light chain mRNA                                                                                                                  |
| Lysozyme (Muramidase)                          | Polyclonal               | Helps to identify myeloid cells, monocytes, histiocytes, and poorly differentiated leukemic monoblasts. Lysozyme is also expressed in myeloproliferative disorders. |
| Mammaglobin                                    | 304-1A5                  | Useful in the identification of breast carcinoma                                                                                                                    |
| Melan A                                        | A103                     | Melanomas, adrenocortical carcinomas and sex cord tumors of the gonads                                                                                              |
| Microinvasion cocktail (CK5/6, p63, CK8/18)    | CK 5/6 & p63 with CK8/18 | Distinguishing DCIS from microinvasive breast carcinoma                                                                                                             |
| MITF                                           | MITF                     | Aids in the classification of melanoma                                                                                                                              |
| MMR IHC Panel for MSI (MLH1, MSH2, MSH6, PMS2) | ES05, F811, EP49, EP51   | Absence correlates with a mismatch repair gene defect in the respective gene                                                                                        |
| MOC31                                          | MOC 31                   | Helps to differentiate carcinomas from mesotheliomas                                                                                                                |
| MPO                                            | Myeloperoxidase          | Useful in differentiating between myeloid and lymphoid leukemias                                                                                                    |
| MUM 1                                          | MUM1p                    | Associated with poor prognosis of patients with diffuse large B-cell Lymphoma                                                                                       |

| Stain Name | Antibody | Description |
|------------|----------|-------------|
|------------|----------|-------------|

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|----------------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Myo D1                                 | clone: 5.8A                                               | Stains majority of rhabdomyosarcomas of various histological subtypes                                                                                                                                                                                                          |
| Napsin A                               | Polyclonal                                                | Used in the identification of pulmonary adenocarcinomas                                                                                                                                                                                                                        |
| NSE                                    | BBS/NC/VI-H14                                             | Neuroendocrine tumors                                                                                                                                                                                                                                                          |
| Oct-4                                  | MRQ-10                                                    | High sensitivity and specificity in seminoma/dysgerminoma, embryonal carcinoma and a germ component of gonadoblastoma                                                                                                                                                          |
| P16                                    | INK4a                                                     | Overexpression reported for some cancer entities                                                                                                                                                                                                                               |
| P40                                    | BC28                                                      | Used as an ancillary tool for a diagnosis of pulmonary squamous cell carcinoma                                                                                                                                                                                                 |
| P53                                    | DO-7                                                      | Overexpression associated with high proliferative rates                                                                                                                                                                                                                        |
| P57                                    | Kp10                                                      | Useful in the identification of complete moles versus partial mole or hydropic abortus                                                                                                                                                                                         |
| P63                                    | BC4A4                                                     | Marker of myoepithelial and basal cells                                                                                                                                                                                                                                        |
| Pan Cytokeratin                        | Lu-5                                                      | stains an intracytoplasmic, formaldehyde-resistant epitope on the surface of cytokeratin filaments. [Lu-5] has been shown to be superior to [AE1/AE3]                                                                                                                          |
| Pan Melanoma                           | Mart-1, HMB 45, Tyrosinase                                | MART-1 is apparently specific for melanocytic lesions, more sensitive than HMB45 when labeling metastatic melanomas and in combination with Tyrosinase aids in identifying metastatic melanoma in sentinel lymph nodes. This cocktail is a useful screening tool for melanoma. |
| PAX5                                   | BC/24                                                     | Labels normal and neoplastic B-cells                                                                                                                                                                                                                                           |
| PAX8                                   | Polyclonal                                                | Identifies clear cell, chromophobe and papillary renal carcinoma, negative in urothelium; stains tumors of Mullerian origin                                                                                                                                                    |
| PD-L1 22C3                             | 22C3                                                      | Used in non-small cell cancer of lung to see if a patient is eligible for Keytruda®.                                                                                                                                                                                           |
| PD-L1 28-8                             | 28-8                                                      | Used in non-squamous, non-small cell cancer of lung to see if a patient is eligible for Opdivo®.                                                                                                                                                                               |
| Phosphohistone H3                      | PHH3                                                      | PHH3 is a core histone protein, one of the major proteins that reach a maximum for chromatin condensation during mitosis; it serves as a mitotic marker to separate mitotic figures from apoptotic bodies and karyorrhectic debris (due to their lack of phosphorylations)     |
| PIN4 Triple Stain (CK5/14, p63, P504S) | P504S (AMACR) & P63 & HMW CK (XM26 + LL002 + BC4A4 + N/A) | Helps with diagnosing prostatic intraepithelial neoplasia                                                                                                                                                                                                                      |
| PLAP                                   | 8A9                                                       | Useful in the identification of seminoma and embryonal carcinomas                                                                                                                                                                                                              |
| PR                                     | PgR 636                                                   | Predicts response of breast cancer to anti-hormonal therapy, such as tamoxifen                                                                                                                                                                                                 |
| PSA                                    | Polyclonal                                                | Useful in the identification of metastasis or prostatic origin                                                                                                                                                                                                                 |
| PSAP                                   |                                                           | Prostatic acid phosphatase; primary and metastatic neoplasm; carcinoid tumor subset                                                                                                                                                                                            |
| RCC                                    | SPM314                                                    | Expressed in renal cell carcinomas and normal kidney tissue                                                                                                                                                                                                                    |
| S100                                   | Polyclonal                                                | Schwannomas, ependymomas, astroglomas, benign/malignant melanomas                                                                                                                                                                                                              |
| SMM-HC                                 | SMMS-1                                                    | Labels smooth muscle and myoepithelial cells, and sclerosing breast lesions                                                                                                                                                                                                    |
| SOX-10                                 | BC34                                                      | Sensitive marker for neoplasms of neural crest origin (e.g. Melanoma) and does not label carcinomas                                                                                                                                                                            |
| SOX-11                                 | MRQ-58                                                    | Specific marker for cyclin D1-positive and cyclin D1-negative MCL                                                                                                                                                                                                              |

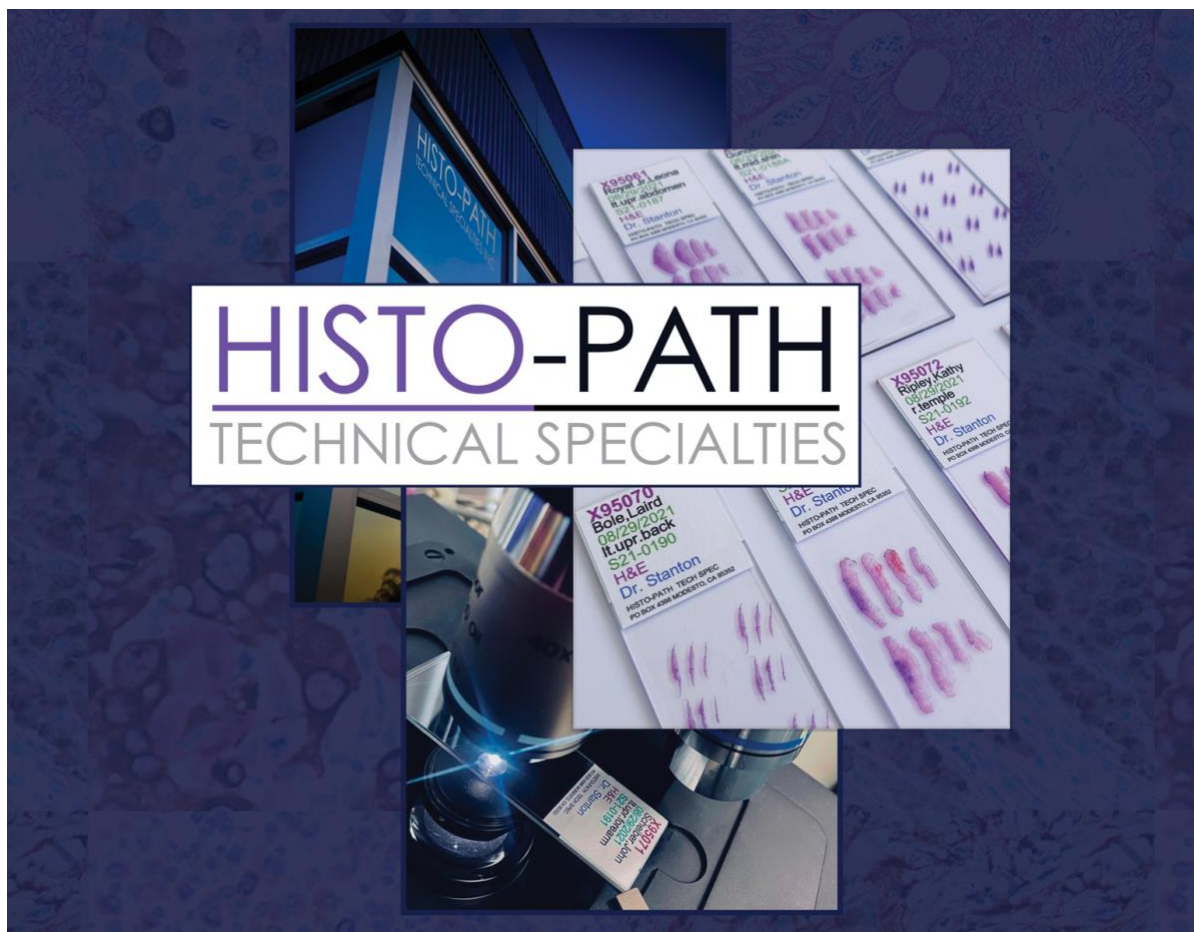
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## IHC

IMMUNOHISTOCHEMISTRY  
LIBRARY

| Stain Name                       | Antibody     | Description                                                                |
|----------------------------------|--------------|----------------------------------------------------------------------------|
| Synaptophysin                    | DAK-SYNAP    | Identification of normal neuroendocrine cells and neuroendocrine neoplasms |
| TdT                              | Polyclonal   | Helpful for the diagnosis of acute lymphoblastic lymphoma/leukemias        |
| Thrombomodulin                   | 1009         | Labels most mesotheliomas with a membranous staining pattern               |
| Thyroglobulin                    | Polyclonal   | Identification of thyroid carcinomas of the papillary and follicular types |
| TTF-1                            | 8G7G3/1      | Reactive with normal and neoplastic thyroid and lung adenocarcinomas       |
| TTF-1/Napsin A<br>(Double stain) | 8G7G3/1 + NA | A useful marker for identifying lung adenocarcinoma                        |
| Vimentin                         | V9           | Mesenchymal cells, lymphocytes, sarcomas, melanomas                        |



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