| Antibody code | Antibody - primary designation | Antibody - secondary designations | Source | Cat# | Ab type | Species reactivity | dilution | Primary classification | Comments A Ser/Thr protein kinase whose activity plays a key role in various | Validated on human tissue | Validated on mouse tissue |
|------------------|--------------------------------------|---|----------------------------|------------|----------------------|-----------------------|-----------------------|---------------------------|--|---------------------------------|---------------------------|
| | | | | | rabbit | | 1:600(H), | Signal | cellular functions, including apoptosis, glycogen synthesis, and cell | | |
| AKT1 | Akt1/PKBa | | Epitomics | 1085-1 | monoclonal | human, mouse | | transduction | growth. | Y | Y |
| AKT-pS473 | Akt1/PKBa (pS473) | | Epitomics | 2118-1 | rabbit monoclonal | human, mouse | 1:400(H), 1:200(M) | Signal transduction | Phosphorylation on Thr308, Ser473 and Tyr474 is required for full activity. | Y | Y |
| ALDH1A1 | ALDH1A1 | aldehyde dehydrogenase | Epitomics | 2052-1 | rabbit monoclonal | human, mouse, | 1:750(H.M) | Stem cell marker | Erythrocyte enzyme and liver cytosolic enzyme, expressed in high level in some stem cells & in some tumor types. | Y | Y |
| | | | | | rabbit | | 1:500(H), | Signal transduction, | Change of localization from cell surface to nuclear indicates Wnt | | |
| bcat | beta-catenin | | Epitomics | E247 | monoclonal | human, mouse | 1:1000(M) | Stem cell marker | signalling. Stem cells often have wnt signalling. | У | Y |
| | | | | | mouse | | | | Inactivation of the BRCA1 gene , located at 17q21, is responsible for some forms of familial breast and ovarian cancer and sporadic ovarian cancer. The BRCA1 protein ts expressed predominantly in the nucleus | | |
| BRCA1 | BRCA1 | | Calbiochem | OP92 | monoclonal | human | 1:50(H) | Genomic stability | and appears to undergo cell cycle regulation. | Υ | N-no staining |
| | | | | | Rabbit | | | | CD31 is non-covalently associated with T cell receptor. The CD3 components of the TCR/CD3 complex mediate signal transduction upon antigen recognition by TCR. CD3 is expressed by T cells in thymus, bone marrow, blood and lymphoid tissues. | | |
| CD3 | CD3 | | Dako | A0452 | polyclonal | Human,mouse | 1:200(H,M) | T cell marker | | Y | Y |
| CD4(H) | CD4 | | Vector laboratories | VP-C319 | mouse monoclonal | Human | 1:120(H) | T cell marker | CD4 a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigenes and is also a receptor for the human immunodeficiency virus. This antigen is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation. | Y | N-no staining |
| CD4(M) | CD4 | | Ebiosciences | 14-9766 | Rat | mouse | 1:100(M) | T cell marker | CD4 a membrane glycoprotein of T lymphocytes that interacts with major histocompatibility complex class II antigenes and is also a receptor for the human immunodeficiency virus. This antigen is expressed not only in T lymphocytes, but also in B cells, macrophages, and granulocytes. It is also expressed in specific regions of the brain. The protein functions to initiate or augment the early phase of T-cell activation. | N-no staining | Y |
| | | | | | mouse | | | | The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. The CD8 antigen acts as a coreceptor with the T-cell receptor on the T lymphocyte to recognize antigens displayed by an antigen presenting cell in the context of class I MHC molecules. | | |
| CD8(H) | CD8 | | Dako | M7103 | monoclonal | Human | 1:200(H) | T cell marker | | Y | N-no staining |
| | | | | | | | | | The CD8 antigen is a cell surface glycoprotein found on most cytotoxic T lymphocytes that mediates efficient cell-cell interactions within the immune system. The CD8 antigen acts as a coreceptor with the T-cell receptor on the T lymphocyte to recognize antigens displayed by an antigen presenting cell in the context of class I MHC molecules. | | |
| CD8(M) | CD8 | ļ | E biosciences | 14-0808 | Rat | mouse | 1:100(M) | T cell marker | | N-no staining | Y |
| CD20 (H) | CD20 | | Leica microosystem s | NCL-L-CD20 | Mouse monoclonal | Human | 1:150(H) | B cell marker | | Y | N-no staining |

| Antibody code | Antibody - primary designation | Antibody - secondary designations | Source | Cat# | Ab type | Species reactivity | dilution | Primary classification | Comments | Validated on human tissue | Validated on mouse tissue |
|------------------|--------------------------------------|---|--------------------|------------|----------------------|--------------------------------|--------------|--------------------------------|--|---------------------------------|---------------------------|
| | | | | | | | | | CD31 is found on the surface of endothelial cells, platelets and | | |
| | | | | | | | | Leukocyte & | leukocytes. It plays a major role in a number of cellular interactions, particularly in adhesion between endothelial cells and leukocytes during | | |
| | | | | | rabbit | | | endothelial | inflammation and angiogenesis. Angiogenesis is critical to tumor | | |
| CD31(H) | CD31 | PECAM1 | Epitomics | 2530-1 | monoclonal | human | 1:800(H) | differentiation | growth, neoplastic progression and metastasis | Υ | N-no staining |
| | | | | | | | | | CD31 is found on the surface of endothelial cells, platelets and | | |
| | | | | | | | | | leukocytes. It plays a major role in a number of cellular interactions, | | |
| | | | | | | | | Leukocyte & | particularly in adhesion between endothelial cells and leukocytes during | | |
| CD24(II M) | CD24 | DECAMA | | 1 20265 | rabbit | | 4 401 10 | endothelial differentiation | inflammation and angiogenesis. Angiogenesis is critical to tumor | Y | Y |
| CD31(H,M) | CD31 | PECAM1 | Abcam | ab28365 | polyclonal rabbit | human, mouse, human, mouse, | 1:4(H,M) | differentiation | growth, neoplastic progression and metastasis Cell surface glycoprotein, expressed in lymphocytes, upregulated in | Y | Y |
| CD44 | CD44 | | Epitomics | 1998-1 | monoclonal | rat | 1:400(H) | Stem cell marker | some tumors. Present in some stem cells. | V | Y |
| CD11 | CD11 | | Epiconnes | 1550 1 | monocional | Tuc | 1.400(11) | Stem ten marker | CD45 is a transmembrane glycoprotein which is expressed at high level | · | · |
| | | | BD | | rat | | | Leukocyte | on leukocytes from hematopoietic cells. CD45 isoforms play roles in T- | | |
| CD45(M) | CD45 | | Biosciences | 550539 | monoclonal | mouse | 1:80(M) | differentiation | cell and B-cell antigen receptor signaltransduction. | N- no staining | Υ |
| | | | | | | | | | CD45 is a transmembrane glycoprotein which is expressed at high level | | |
| | | | Sigma | | Rabbit | | | Leukocyte | on leukocytes from hematopoietic cells. CD45 isoforms play roles in T- | | |
| CD45(H) | CD45 | | Prestige | HPA 000440 | polyclonal | human | 1:400(H) | differentiation | cell and B-cell antigen receptor signaltransduction. | Y | N-no staining |
| | | | | | | | | | Glycosylated transmembrane protein which is mainly located in | | |
| cnco | CD68 | | Novus | ND400 600 | mouse | | 4 400(11) | C1 | lysosomes. It reacts with myeloid precursors and peripheral blood | Y | N-Non specific |
| CD68 | CD68 | | Biologicals | NB100-683 | monoclonal | human,mouse | 1:400(H) | Stem cell marker | granulocytes. Chromogranin A is a protein prohormone.Potentially biologically active | Y | staining |
| | | | | | | | | | peptides derived from chromograninaA | | |
| | | | Dako | | mouse | | | Neuroendocrine | are,vasostatins,chrmostatin,chrmocin,pancreastatin,WE-14 etc. It has | | |
| Chro | Chromogranin A | | Cytomation | A0430 | monoclonal | human | 1:800(H) | differentiation | been used as a marker for neuroendocrine cells and tumors. | Y | N-no staining |
| | | | | | | | ` ′ | | Caspase 3 is one of the key excutioners of apoptosis, as it is either | | |
| | Cleaved Caspase | | | | rabbit | human, | | | partially or toatlly responsible for the proteolytic cleavage of many key | | |
| Cl Caspase-3 | 3 | | Cell Signaling | 9661 | polyclonal | mouse,rat | 1:500(H.M) | Apoptosis | proteins such as PARP. | Y | Υ |
| | | | | | | | | | Cyclin D1 is required for G1/s cell cycle transition. Cyclin D1 | | |
| | | | | | | | | | phosphorylates and inactivates retinoblastoma protein and promotes | | |
| | | | | | . 1. 1. 21 | | | | progression through G1/s phase. Amplification or over expression of | | |
| Coolin D1 | Cycline D1 | | F-: | 4202-1 | rabbit monoclonal | human, mouse, rat | 1.75(11) | Call avala | cyclin D1 play a pivotal role in the development of various human | · · | N-no staining |
| Cyclin D1 | Cycline D1 | | Epitomics | 4202-1 | rabbit | human, mouse, | 1:75(H) | Cell cycle Smooth muscle | cancers. Intermediate filament protein, expressed during the formation of | Y | N-no staining |
| Desmin | Desmin | | Epitomics | 1466-1 | monoclonal | rat | 1:250(H,M) | differentiation | muscle cells or fibers. | Y | Y |
| Desimin | Desimin | İ | Epiconnes | 1100 1 | monocionai | Tuc | 1.230(11,11) | Cell-cell | mastic cells of fibers. | | · · |
| | | | | | | | | interaction, | E-cadherin is a glycoprotein with an extracellular domain that interacts | | |
| | | | Sigma | | rabbit | | | epithelial | with other E-cadherin molecules on adjacent cells, thereby establishing | | N-Non specific |
| Ecad | E-cadherin | | Prestige | HPA004812 | polyclonal | human | 1:200(H) | differentiation | adhesion between epithelial cells. | Υ | staining |
| | | | | | | | | Signal | | | |
| | Epidermal | | | | | | | transduction, | EGFR is type I receptor tyrosine kinase, activated by the EGF family of | | |
| FOFD | Growth Factor | | Thermo | MC 270 D4 | mouse | | 4 000 (11) | epithelial | ligands. EGFR is overexpressed or mutated in many common forms of | Y | N |
| EGFR | Receptor | - | Scientific | MS-378-P1 | monoclonal | human | 1:800 (H) | differentiation | carcinoma. | Y | N-no staining |
| | | | | | | | | | EGFR/erbB receptors are activated upon binding of EGF and EGF- related growth factors such as TGF alpha, beta-cellulin, Hb-EGF, HRG, | | |
| | | | | | | | | | or NRG. Binding of these ligands leads to receptor homo- and | | |
| | | | | | | | | Signal | heterodimerization followed by autophosphorylation and activation of | | |
| | Phospho EGFR (| | | 0116- | | | | transduction, | downstream signal transduction pathways (MAPK, PI3K/PKB, and | | |
| | phospho- | | | 100/EGFR- | mouse | | | epithelial | STAT). In addition, EGFR becomes fully activated after phosphorylation | | |
| pEGFR | Tyr845) | | Nanotools | 12A3 | monoclonal | human,mouse | 1:100 (H) | differentiation | of Y845 by src family kinases. | Υ | N-no staining |
| | | | | | | | | | · | | |
| | Epithelial cell | GA733-2, EGP, | I | I | | | | | | | |
| | adhesion | KSA, KS 1/4, | L | 1 | rabbit | human, mouse, | 1:2500(H,M | | A monomeric membrane glycoprotein expressed on virtually all | | |
| EpCAM | molecule | Trop-1, CD326 | Epitomics | 1144-1 | monoclonal | rat |) | differentiation | epithelial cells | Y | Y |
| | F | ĺ | | I | B . I. I. II | L | | | Estrogen receptor acts as an estrogen dependent nuclear hormone | | |
| ED (U) | Estrogen | 1 | Biocare Medical | ACA 201 B | Rabbit monoclonal | Human and Mouse | 1.100(4) | Call differentiation | receptor.Er is present in the nuclei of epithelial cells in normsal breast | Y | N-no staining |
| ER (H) | Receptor | - | medical | ACA 301 B | monocional | mouse | 1:100(H) | Cell differentiation | and endometrial tissues, as well as of breast carcinomas. | Ť | iv-no staining |
| | | ĺ | I | I | | | | | | | |
| | Estrogen | 1 | 1 | 1 | Rabbit | Mouse and | | | | | |
| ER(M) | receptor | ĺ | Abcam | Ab 32063 | monoclonal | human | 1:200(M) | Cell differentiation | | N/A | Υ |
| | | • | • | • | • | • | | | | | |

| Antibody code | Antibody - primary designation | Antibody - secondary designations | Source | Cat# | Ab type | Species reactivity | dilution | Primary classification | Comments | Validated on human tissue | Validated on mouse tissue |
|------------------|---|---|-------------------|------------|----------------------|-----------------------|-----------------------|-------------------------------|---|---------------------------------|---------------------------|
| Fox p3(H) | Fox p3 | | Abcam | Ab 20034 | Mouse monoclonal | human | 1:200(H) | Regulartory T cell | The FOXP3 protein, also known as scurfin, is essential for normal immune homeostasis. Specifically, FOXP3 represses transcription through a DNA binding forkhead domain, thereby regulating T cell activation. The FOXP3 protein, also known as scurfin, is essential for normal | Y | N-no staining |
| Fox p3(M) | Fox p3 | | E biosciences | 14-5773-80 | Rat | mouse | 1:100(M) | Regulartory T cell | immune homeostasis. Specifically, FOXP3 represses transcription through a DNA binding forkhead domain, thereby regulating T cell activation. | N-no staining | Y |
| | Phospho-p44/42 MAPK (ERK1/2)(Thr20 2/Tyr204) | | Cell Signaling | 9101 | rabbit polyclonal | human,mouse,r at | 1:200(H) | Signal transduction | MAPKs are a widely conserved family of serine/threonine protein kinases involved in many cellular programs such as cell proliferation, differentiation, motility, and death. The p44/42 MAPK (Erk1/2) signaling pathway can be activated in response to a diverse range of extracellular stimuli including mitogens, growth factors, and cytokines (1-3) and is an important target in the diagnosis and treatment of cancer | Y | N-no staining |
| | Basic fibroblast growth factor | | BD Biosciences | 610073 | mouse monoclonal | Human | 1:100(H) | Cell differentiation | FGF2 is a family member of cell diffentiating and growth promoting factors. At the cellular level, bFGF2 is a potent mitogen and promotes cell survival by inhibiting apoptosis. At the tissue level,it is involved in wound repair and induced angiogenesis. | Y | N-no staining |
| pFGFR(Tyr65 | Phospho- fibroblast growth factor | | Cell Signaling | 3476 | mouse monoclonal | human, mouse, | 1:100(H) | Cell differentiation | FGFs produce mitogenic and angiogenic effects in target cells by signaling through cell surface receptor tyrosine kinase. Tyrosine 653 and 654 are important for catalytic activity of activated FGFR and are essential for cell signaling. | Y | N-no staining |
| | Fibroblast growth factor receptor 2 alpha | Bek receptor | R&D system | MAB 6841 | Mouse monoclonal | Human | 1:100 (H) | Cell differentiation | FGFR family members differ from one another in their ligand affinities and tissue distribution. A full-length representative protein consists of an extracellular region, composed of three immunoglobulin-like domains, a single hydrophobic membrane-spanning segment and a cytoplasmic tyrosine kinase domain. The extracellular portion of the protein interacts with fibroblast growth factors, setting in motion a cascade of downstream signals, ultimately influencing mitogenesis and differentiation. | Y | N-no staining |
| | Fibroblast growth factor substrate 2 | FRS2A, FRS2alpha, SNT-1, SNT1 | Protein tech | 11503-1-AP | Rabbit polyconal | Human | | | FRS2 has been shown to interact with PRKCI, Grb2, PTPN11, Fibroblast growth factor receptor 1, TrkA,Cbl gene and SOS1. FRS2 play an important role in cell differentiation. | Y | N-no staining |
| | | | Zymed | | mouse | | | Signal transduction / | This protein is a member of the epidermal growth factor (EGF) receptor family of receptor tyrosine kinases. This protein has no ligand binding domain of its own and therefore cannot bind growth factors. However, it does bind tightly to other ligand-bound EGF receptor family members to form a heterodimer, stabilizing ligand binding and enhancing kinase-mediated activation of downstream signalling pathways, such as those involving mitogen-activated protein kinase and phosphatidylinositol-3 kinase. Allelic variations at amino acid positions 654 and 655 of isoform a (positions 624 and 625 of isoform b) have been reported, with the most common allele, Ile654/Ile655, shown here. Amplification and/or overexpression of this gene has been | | |
| Her2 | Her2 | c-erbB-2,neu | | 18-7107 | monoclonal mouse | human | 1:100(H) | oncogene Epithelial | reported in numerous cancers, including breast and ovarian tumors Cytokeratins are alpha-type fibrous polypeptide. They are held to be | Y | N-no staining |
| K5/6 | cytokeratin 5/6 | CK5/6 | cytomation | M7237 | monoclonal | human | 1:200(H) | differentiation | the most ubiquitous markers of epithelial differentiation. | Y | N-no staining |
| K10 | cytokeratin 10 | | Epitomics | 2210-1 | rabbit monoclonal | human,mouse | 1:300(H) | Epithelial differentiation | Intermediate filament protein, expresed in suprabasal layers of stratified squamous epithelium. Expresion is related to degree of keratinocyte differentiation. | Y | N - no staining |
| K18 | cytokeratin 18 | | Epitomics | 1433-1 | rabbit monoclonal | human, mouse, rat | 1:200(H), 1:100(M) | Epithelial differentiation | Intermediate filament protein, expressed preferentially in simple glandular epithelia. | Υ | Υ |
| | Ki67 | | Epitomics | 4203-1 | rabbit monoclonal | human, mouse | | Proliferation / Cell | Present in active phases of the cell cycle (late G1, S, G2, and mitosis), but absent in resting cells. | Υ | Y |

| Antibody code | Antibody - primary designation | Antibody - secondary designations | Source | Cat# | Ab type | Species reactivity | dilution | Primary classification | Comments | Validated on human tissue | Validated on mouse tissue |
|---------------|--------------------------------------|---|-----------------------|-----------|----------------------|------------------------------|--------------|------------------------------------|---|---------------------------------|----------------------------|
| | | | | | | | | Differentiation | Napsin is a pepsin-like aspartic proteinase. There are three isoforms. | | |
| | | | Leica microosystem | NCI -I - | mouse | | | Differentiation - | Napsin-A is also termed napsin-1, or TA02, a Tumor Adenocarcinoma marker. Napsin A may be involved in processing of pneumocyte | | |
| Napsin A | Napsin A | | s | NapsinA | monoclonal | human | 1:400(H) | adenocarcinoma | surfactant precursors. | Y | N-no staining |
| | Nuclear factor | | | | | | | | Inducible transcription factor involved in apoptosis resistance. Bound to | | |
| NFKB-p65 | kappa B, p65 | | F-iti | 1546-1 | rabbit monoclonal | human | 1:500(H) | Signal | inhibitor (IKB) and retained in cytoplasm. During activation, the p65 | Υ | N |
| игкв-роз | subunit | | Epitomics | 1546-1 | monocionai | numan | 1:500(H) | transduction | subunit is released from IKB and translocates to the nucleus. | Y | N - no staining N - non |
| | | | | | goat | human, mouse, | | | POU domain-containing transcription factor, expressed in stem cells. | | specific |
| Oct4 | Oct-4 | Oct-3, Oct-3/4 | Santa Cruz | sc-8629 | polyclonal | rat | 1:1000(H) | Stem cell marker | Regulates stem cell renewal & differentiation. | Υ | staining |
| | | | | | | | | | MEK1 and MEK2 are dual-specificity protein kinases that function in a | | |
| pMEK(Ser22 | Phospho-MEK 1/2(Ser221) | MAPK | Cell Signaling | 2220 | rabbit polyclonal | human, Mouse, Rabbit, Dog | 1:100(H) | Signal transduction | mitogen activated protein kinase cascade controlling cell growth and differentiation | Y | Y |
| 1) | 1/2(561221) | MAPK | Cell Signaling | 2330 | polycional | Rabbit, Dog | 1:100(H) | transduction | | ı ı | T |
| | | | | | . 1. 1. 2 | | | | The c-Myb proto-oncogene is a protein involved in growth regulation | | |
| c-Myb | c-Myb | | Abcam | Ab 177510 | rabbit polyclonal | human | 1:100(H) | Transcription factor / oncogene | and differentiation in many different cell types . C-Myb activity is directly regulated by cyclin D and CDKs. | Y | N-no staining |
| C-MyD | C-MyD | cyclin- | Abcaiii | AD 177310 | polycional | Hullian | 1.100(11) | ractor / oricogene | directly regulated by Cyclin D and CDRs. | ' ' ' | N-110 Stailing |
| | | dependent | | | | | | | p16 protein is a specific inhibitor of cdk4, which regulates Rb and Rb | | |
| | | kinase | | | | | | | related proteins, p107 and p130. p16 is inactivated in many tumor | | |
| | | inhibitor 2A, | BD | | mouse | | | Tumor suppressor | types by gene mutation or silencing, and its protein level is influenced | | |
| p16 | p16 | CDKN2A | Pharmingen | 550834 | monoclonal | human | 1:100 (H) | gene | by papillomavirus oncoproteins. | Y | N-no staining |
| | | | | | mouse | human, mouse, | | Proliferation/ cell | | | N - non specific |
| p21 | p21 | WAF1/Cip1 | Santa Cruz | sc-6246 | monoclonal | rat | 1:100(H) | cycle | Promotes cell cycle transitions. | Y | staining |
| PLI | P-1 | | Carrea Craz | 50 02 10 | monocional | , ac | 11100(11) | Cyc.c | p53 plays a major role in the dellular response to DNA damage and | | N - non |
| | | | Dako | | mouse | | | Tumor suppressor | ther genomic aberrations. Activation of p53 can lead to either cell | | specific |
| p53 | p53 | | Cytomation | M7001 | monoclonal | Human | 1:200(H) | gene | cycle, arrest and DNA repair, or apoptosis. | Y | staining |
| .63 | | | Biocare | CM 4 CO 4 | mouse | human, mouse, | 4 200(11) | Epithelial | Expressed in many types of basal epithelium. Differentiates between | ., | |
| p63 | p63 PARP-1 (Cleaved | | Medical | CM 163A | monoclonal rabbit | rat | 1:200(H) | differentiation | basal and surface/lumenal epithelium. Cleaved in vivo by caspase 3, hence is a marker of activated apoptotic | Y | N/A |
| PARP1 | p25) | | Epitomics | 1051-1 | monoclonal | human, mouse | 1:500(H,M) | Apoptosis | pathway. | Y | Y |
| 1744.2 | pro/ | | Epitomico | 1001 1 | monocional | mamany mouse | 11000(11)117 | Epithelial | patimayi | | · |
| | | | | | rabbit | human, mouse, | | differentiation / | An intermediate filament binding protein, Could also bind muscle | | |
| Plectin | Plectin 1 | | Abcam | ab32528 | monoclonal | rat | 1:400(H) | cancer biomarker | proteins such as actin to membrane complexes in muscle. | Y | N/A |
| | | | | | | | | | Progeterone receptor acts as a progesterone dependent nuclear | | |
| | Progesterone | | Dako | | Mouse | | | | hormone receptor.The absence of PR predicts early recurrence and | | |
| PR | receptor | | Cytomation | M3569 | monoclonal | human | 1:200(H) | Cell differentiation | poor survival of breast cancer patients. | Y | N/A |
| | | | | | rabbit | | | Dsmooth muscle | Contractile protein that makes up the cytoskeleton. SMA is restricted to | | N - non |
| SMA | smooth muscle actin | alpha actin | Epitomics | 1184-1 | monoclonal | human, mouse, rat | 1:200(H) | differentiation | smooth muscle cells (including vascular smooth muscle) and myoepithelial cells. | Y | specific staining |
| SIIA | detin | dipila acciii | Epiconnes | 110 1 | monocional | Tuc | 1.200(11) | Signal | Src is a protein tyrosine kinase known to regulate cellular adhesion. | | Stalling |
| | | | | | rabbit | | | transduction / | Several cancers including colon and breast cancer have been | | |
| SRC | cSRC | | Epitomics | 1587-1 | monoclonal | human, Rat | 1:100(H) | oncogene | associated with an increase of SRC activity. | Y | N-no staining |
| | | | | | | | | | Phosphorylation at two conserved Src regulatory tyrosine residues | | |
| | | | | | | | | Cianal | (Tyr416) are responsible for activation of the SH1 kinase domain | | No Non |
| | Phospho SRC | | 1 | | Rabbit | | | Signal transduction / | (Tyr416). Src activation and signaling through downstream substrates is known to mediate gene transcription, cell adhesion, cell motility, cell | | No-Non specific |
| pSRC | (Tyr 416) | | Cell signaling | 2101 | polyclonal | human, mouse | 1:40 (H) | oncogene | cycle progression, apoptosis, and differentiation | Υ | staining |
| | , , , , | | | | | , | | | Membrane receptor signaling by variuos ligands, including interferons | | |
| 1 | | | 1 | | | | | 1 | and growth hormones such as EGF, induces activation of Jak kinases | | |
| S | a | | | | rabbit | human, mouse, | | Signal | which then leads to tyrosine phosphorylation of various transcription | | l l |
| Stat5a | Stat 5a | | Santa Cruz | sc-1081 | polyclonal | rat | 1:400(H) | transduction | factors. | Y | N-no staining |
| | | | | | mouse | human, mouse, | | Signal | Activation of Stat 5b via IL-2,IL-4,CSF1 and growth hormones influences TCR signaling,apoptosis, adult mammary gland development | | |
| Stat5b | Stat 5b | | Santa cruz | sc-1656 | monoclonal | rat | 1:125(H) | transduction | and sexual dimorphism of liver gene expression. | Y | Y |
| | | | | | | | () | | Stat5 is tyrosine phosphorylated in response to IL2,IL3,IL7,IL15,GM- | | |
| 1 | | | 1 | | 1 | | | 1 | CSF, growth hormanone, prolactin, erythropoietin and thrombopoietin. | | |
| L | Phospho-Stat5 | | L | | rabbit | [. | | Signal | Tyrosine phosphorylation is required for DNA-bonding activity and | | |
| Stat5-pY694 | (1yr 694) | | Epitomics | 1208-1 | monoclonal | human, mouse | 1:50(H) | transduction | dimerization. | Y | Υ |

| Antibody code | Antibody - primary designation | Antibody - secondary designations | Source | Cat# | Ab type | Species reactivity | dilution | Primary classification | Comments | Validated on human tissue | Validated on mouse tissue |
|---------------|--------------------------------------|---|--------------|-----------|------------|-----------------------|------------|---------------------------|--|---------------------------------|---------------------------|
| | | | | | | | | | The protein is a synaptic vesicle glycoprotein with four transmembrane | | |
| | | | | | | | | | domains weighing 38kDa. It is present in neuroendocrine cells and in | | |
| | | | Dako | | mouse | | | Neuroendocrine | virtually all neurons in the brain and spinal cord that participate in | | |
| Snpt | Synaptophysin | | Cytomation | M0776 | monoclonal | human | 1:400(H) | differentiation | synaptic transmission. It acts as a marker for neuroendocrine tumors | Υ | N-no staining |
| | | | | | | | | | transcription factor that binds and activates the promoter of thyroid | | |
| | | | | | | | | | specific genes such as thyroglobulin, thyroperoxidase, and thyrotropin | | |
| | Thyroid | | | | | | | | receptor. Crucial in the maintenance of the thyroid differentiation | | |
| | transcription | | Leica | | Mouse | | | Differentiation- | phenotype. May play a role in lung development and surfactant | | |
| TTF-1 | factor-1 | | microsystems | NCL-TTF-1 | monoclonal | human | 1:400(H) | lung cancer | homeostasis. | Υ | N-no staining |
| | | | | | | | | | Most common member of intermediate filament family and a main | | |
| | | | | | rabbit | | | Mesenchymal | component of cytoskeleton structure. Most strongly expressed in | | |
| Vim(H) | Vimentin | | Abcam | Ab16700 | monoclonal | human | 1:80(H) | differentiation | mesenchymal cells and other cell types derived from mesoderm. | Υ | N-no staining |
| | | | | | | | | | Most common member of intermediate filament family and a main | | |
| | | | | | rabbit | | | Mesenchymal | component of cytoskeleton structure. Most strongly expressed in | | |
| Vim(H.M) | Vimentin | | Abcam | ab45939 | polyclonal | human, mouse | 1:800(H,M) | differentiation | mesenchymal cells and other cell types derived from mesoderm. | Υ | Υ |