



Immunohistochemistry Markers

Hematolymphoid markers

Lymphoma/Leukemia

CD1a cortical thymocyte, Langerhans cell
CD4 Helper T-cell
CD5 Pan T-cell, B-cell subset, thymic carcinoma
CD8 Suppressor T-cell
CD23 activated B-cell
CD43 T-cell, mye., B-cell subset, histio, plasma
CD45 leucocyte common antigen
CD57 neural, neuroendocrine, NK cell
CD68 macrophage
CD117 c-kit; myeloid and mast cell
Cyclin D1/PRAD1, mantle cell lymphoma
Glycophorin A
Hairy cell leukemia (DBA 44)
Myeloperoxidase
TdT, terminal deoxynucleotidyl transferase,
cortical thymocyte, precursor B-cell
ZAP 70, CLL/SLL prognosis

B-Cell Markers

CD20 pan B-cell
CD79a B-cell, plasma cell
PAX-5, B-cell transcription factor
Kappa Immunoglobulin light chains
Lambda Immunoglobulin light chains

T-Cell Markers

CD2 thymic, peripheral T cell, NK cell
CD3 pan T-cell antigen
BCL2 follicular lymphoma, apoptosis inhibiting
protein
BCL6 follicle center B-cells
CD10 Common acute lymphoblastic leukemia
antigen (CALLA)
CD43 T-cell, myeloid, B-cell subset, histiocytes,
plasma cells
Granzyme B, cytotoxic T-cell subset, NK cell

Hodgkin Disease

Anaplastic lymphoma kinase -1
CD15 epithelial, myeloid, Reed-Sternberg cell
CD30 Ki-1 activated T-cell, B-cell,
Reed-Sternberg cell
Fascin; Hodgkin's lymphoma, Reed Sternberg

Plasma Cell Markers

CD138 plasma cell, subset epithelial cell
Kappa Immunoglobulin light chains
Lambda Immunoglobulin light chains
CD56 NK cell
p63 tumor suppressor gene protein plasma cell

Anatomic Site

Breast

Estrogen receptor
Progesterone receptor
Herceptest (HER2/neu)
Ki67 (MIB-1) cell proliferation marker
E-cadherin epithelial cell, ductal-type
Cathepsin D
Gross cystic disease fluid protein 15 (BRST-2)
BRST2 profile (CK5/6 + P63 + CK8/18)^d

Colon

CDX2
Microsatellite instability profile
Microsatellite instability MLH1
Microsatellite instability MSH2
Microsatellite instability MSH6
Epidermal growth factor receptor (HER1)
Ki67 (MIB-1) cell proliferation marker
P53 tumor suppressor gene protein

Infectious Agents

Varicella Zoster Virus
Herpes Simplex Type 1 and 2
Cytomegalovirus
Helicobacter pylori

Melanoma

S-100 protein
HMB-45, melanoma associated marker
Melanoma cocktail (HMB-45, MelanA)
Melanoma associated marker /Mart-1
Tyrosinase

Neuroendocrine

Chromogranin A
Synaptophysin
Neuron-specific enolase
Somatostatin, D-cells pancreatic islet cells

Prostate

Androgen receptor
Prostate specific antigen (PSA)
PIN-2 cocktail (P504S, CK HMW,
PIN-4 cocktail (p504S, HMW CK, p63)
P504S gene product (AMACR)
Prostatic acid phosphatase

Thyroid

Galectin-3
Thyroid transcription factor-1
Thyroglobulin
CK 19 cytokeratin
Calcitonin

Specialty markers

Cytokeratins

Pan Cytokeratin (AE1/AE3)
Cytokeratin high molecular weight; 34BE12
CK 5/6 cytokeratin, squamous, mesothelial
CK 5 / p63 tumor suppressor gene^{d,c}
CK 7 54kD
CK 8 (CAM 5.2)
CK 8/18, adenocarcinoma, squamous cell
CK 19
CK 20

Endothelial

CD31 endothelial cell
CD34 endothelial, stem cells, stromal cells
VonWillebrand Factor VIII

Mesothelioma

Calretinin; calcium binding protein
CK 5/6 cytokeratin, squamous, mesothelial
Epithelial antigen (BER-EP4)

Microsatellite Instability

MLH1
MSH2
MSH6

Prognostic

Alpha fetoprotein
CA 19-9
CA 125
Carcinoembryonic antigen (CEA)
CDX2 colorectal carcinoma
CD117 c-kit; myeloid and mast cell
Collagen IV, basement membrane protein
Desmin filament protein
Epidermal growth factor receptor (HER1)
Epithelial antigen Ber-EP4
Epithelial membrane antigen
Epithelial Related Antigen (MOC-31)
Factor XIIIa
Human glial fibrillary acidic protein
Hepatocyte antigen (HEP-Par-1)
Inhibin
Muscle Specific Actin
Myogenin muscle marker
Myoglobin cardiac, skeletal
Neurofilament
P16 tumor suppressor gen protein
P53 tumor suppressor gene protein
P63 tumor suppressor gene protein
ProEx™ C Biomarker
Platelet derived growth factor receptor alpha
Placental alkaline phosphatase,
Renal Cell Carcinoma
Smooth Muscle Actin
Smooth Muscle Myosin
TAG 72, adenocarcinoma
Vimentin

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