

**Primary Antibody List**  
**Mouse Histology and Phenotyping Laboratory**  
**Olson Build 8-333, Tel: 312-503-2695; Email: MHPL@northwestern.edu**

<b>#</b>	<b>Primary Antibody</b>	<b>Classification</b>	<b>Reactivity</b>	<b>Host</b>
58	Akt (phospho Ser473)	Signal transduct	h.m.rt	Rabbit-mAb
70	Akt1 (C73H10)	Signal transduct	h.m.rt	Rabbit-mAb
44	Androgen Receptor	Steroid receptor	h.m.rt	Rabbit-p
78	ATP1a3	Na/K ATPase	m.rt	Rabbit-p
157	Beta III Tubulin	Neuronal Marker	h.m.r.p	Rabbit-p
149	Beta-Tubulin (9F3)	Neuronal Marker	h.m.rt	Rabbit-mAb
82	Brdu	Proliferation	-	Sheep-p
90	Brdu	Proliferation	-	Ms-mAb
85	Cadherin, N-	Metastatic carcinoma unknown primary	m	Rat-mAb
29	Cadherin, Pan	Plasma Membrane	h.m.rt	Rabbit-p
32	Casp3 cleaved/activated	Apoptosis	h.m.rt	Rabbit-p
23	Caspase 9 (aa 1-134)	Apoptosis	h.m.rt	Rabbit-p
156	Caspase-3 (3CSP03)	Apoptosis	h.rb	Ms-mAb
113	CD11c (HL3)(Fronze only)	Dendritic cells	m.	Hamster-mAb
135	CD11c (N418)(Fronze only)	Dendritic cells	h.m	Hamster-mAb
31	CD138 (281-2)	Plasma cell	m	Rat-mAb
144	CD20	B-cell	h	Rabbit-mAb
68	CD24	B-cells	h.m.rt	Rabbit-p
108	CD3 (SP7)	T cell	h.m.rt	Rabbit-mAb
147	CD31 Zinc-fixation	Endothelial cells	m.	Rat-mAb
45	CD31/PECAM-1	Endothelial cell	h.m.rt	Goat-p
13	CD31/PECAM-1 (Mec13.3)	Endothelial cell	m	Rat-mAb
37	CD34	Endothelial cell	h.m.rt.rb	Rabbit-p
21	CD34 (MEC14.7)	Endothelial cell	m	Rat-mAb
109	CD43 (S7)	Cell adhesion and T-cell activation	m	Rat-mAb
110	CD44 (IM7)	Cell adhesion and migration	m	Rat-mAb
143	CD45	Leukocyte differentiation	h.m.r.p	Rabbit-p
38	CD45 (30-F11) (Fronze only)	Leukocyte common antigen	m	Rat-mAb
49	CD45 (PD7/26/16 + 2B11)	Leukocyte common antigen	h.rt	Ms-mAb
25	CD45R/B220 (RA3-6B2)	B cell	m	Rat-mAb
155	CD56 (RNL-1)	Neuroendocrine differentiation	h.m.r	Ms-mAb
60	CD68	Macrophage	m,rt	Rabbit-p
122	CD68 (KP1)	Macrophage	h	Ms-mAb
148	CD8 Zinc-fixation	T cell	h.m.rt	Rabbit-mAb
81	CD8a (Fronze only)	T cell	m	Rat-mAb
125	CDk-2	Cell cycle marker	h.m.rt	Rabbit-p
104	c-Myc (Y69)	Proto-oncogene/Proliferation	h.m.rt	Rabbit-mAb
95	Collagen I	Fibrillar-forming-collagen	h.m	Goat-p
53	CREB (48H2)	Signal transduct	h.m.rt	Rabbit-mAb
54	CREB (phospho Ser133)	Signal transduct	h.m.rt	Rabbit-mAb
150	Cyclin A AB-7	Proliferation	h.m.r	Rabbit-p
146	Cyclin B1 AB-2	Proliferation	h.m.r	Rabbit-p
22	Cyclin D1	Proliferation	h.m.rt	Rabbit-p

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142	Cyclin D1 / Bcl-1 Antibody (SP4)	Proliferation	h.m.r	Rabbit-mAb
34	Cyclooxygenase 2 (COX2)	Inflammatory response	h.m.rt	Rabbit-mAb
87	Cytokeratin 19	Epithelial tumor marker	m	Rat-mAb
46	Cytokeratin-10	Epithelial differentiation	h.m	Rabbit-p
17	Desmin (Y266)	Smooth, skeletal muscle differentiation	h.m.rt	Rabbit-mAb
41	Desmoglein 1	Component of intercellular desmosome junctions	h.m.rt	Rabbit-mAb
14	Digoxigenin	-	-	Sheep-p
140	E-Cadherin (36/E-Cadherin)	Cell-cell interaction, Differentiation	h.m.r	Ms-mAb
56	EGFR (E114)	Epithelial differentiation	h.m.rt	Rabbit-mAb
126	EMBP	Eosinophil marker	h.m.rt	Goat-p
88	EpCAM (G8.8)	Carcinoma marker	m	Rat-mAb
35	Estrogen Receptor (alpha-ER) (E115)	Steroid receptor	h.m.rt	Rabbit-mAb
28	F4/80 (BM8)	Macrophage marker	m	Rat-mAb
65	Fas L	Tumor necrosis factor family	h.m.rt	Rabbit-p
151	FOXP3	Transcription regulator of T Cells	h.m.r	Rabbit-p
152	Fra-2 (H-103)	Transcription Factor	h.m.r	Rabbit-p
131	FSP1	Fibroblast marker	h.m	Rabbit-p
43	Galactosidase (Beta-gal)	Hydrolase enzyme	-	Rabbit-p
100	Galactosidase (Beta-gal) (IF)	Hydrolase enzyme	-	Chicken-p
91	GFP	Green fluorescent protein	-	Ms-mAb
133	GFP	Green fluorescent protein	-	Chichen IgY
103	GFP (Biotin)	Green fluorescent protein	-	Goat-p
4	Glial Fibrillary Acidic Protein (GFAP)	Astrocyte	h.m.rt	Rabbit-p
16	Glucagon (EP3070)	Hormone	h.m.rt	Rabbit-mAb
24	Glucose-Regulated Protein 94 (Grp94/gp96)	Endoplasmic reticulum	h.m.rt	Rat-mAb
97	Gr-1 (Biotin) (RB6-8C5)(Fronze only)	Monocyte, neutrophils and eosinophils (granulocytes)	m	Rat-mAb
40	HER2/ErbB2 (29D8)	Oncogene	h.m.rt	Rabbit-mAb
84	HIF-1a	Endogenous hypoxia markers	h.m	Rabbit-p
19	Histone H3 (phospho S10)	Proliferation	h.m.rt	Rabbit-p
128	phosphorylated Neurofilament H (NF-20)	Neurodegeneration marker	h.m.r	Ms-mAb
73	IgG (HRP)	Antibody isotype	m	Goat-p
94	Insulin	Pancreatic endocrine tumors	h.m.rt	Guinea Pig-p
50	Ki67 (8D5)	Proliferation	h.m.rt.rb.p	Ms-mAb
112	Ki67 (B56)	Proliferation	h.m.rt.p	Ms-mAb
39	Ki67 (SP6)	Proliferation	h.m.rt	Rabbit-mAb
1	Ki67 (TEC-3)	Proliferation	m	Rat-mAb
98	Lam-a1	Basement membrane	h.m	Rabbit-p
99	Laminin	Basement membrane	h.m.rt	Chicken-p
107	LC3A (D50G8)	Autophagosome Marker	h.m.rt	Rabbit-mAb
96	Ly-6G (1A8)	Granulocytes	m	Rat-mAb
26	Mac 3 (M3/84)	Macrophage	m	Rat-mAb
12	Melanoma Cocktail	Melanoma	h.rt	Ms-mAb
9	MITF(C5)	Melanocyte/Melanoma	h.rt	Ms-mAb
141	N-Cadherin (32/N-Cadherin)	Metastatic carcinoma unknown primary	h.m.r	Ms-mAb
30	NeuN (A60)	Neuronal	h.rt	Ms-mAb

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27	p27/Kip1 (EPFHCR16)	Differentiation	m.rt	Rabbit-mAb
57	p38 MAPK (phospho Thr180/Tyr182)	Signal transduct	h.m.rt	Rabbit-mAb
51	p44/42 MAPK (Erk1/2) (phospho Thr202/Tyr204)	Signal transduct	h.m.rt	Rabbit-mAb
137	p53(FL-393)	tumor suppressor gene	h.m.r	Rabbit-p
145	PAX5	Transcription Factor (B cell)	h.m.r	Rabbit-p
83	Pax-7	Myogenesis	h.m.rt	Rabbit-p
62	PCNA	Proliferation	h.m.rt	Rabbit-p
132	PDGF R alpha	Platelet Derived Growth Factor Recept	m	Goat-p
59	Peanut Agglutinin (PNA-Biotinylated) *	-	-	Lectin
15	Progesterone Receptor (PR)	Steroid receptor	h.m.rt	Rabbit-p
79	proSP-C	Type II alveolar epithelial cells	h.m.rt	Rabbit-p
36	Protein Gene Product 9.5 (PGP9.5)	Neuronal	h.m.rt	Rabbit-p
75	RFP	Red fluorescent protein	RFP	Rabbit-p
5	S100 (1A4)	Neural differentiation	h.m.rt	Rabbit-p
55	S6 Ribosomal Protein (phospho Ser235/236)	Signal transduct	h.m.rt	Rabbit-mAb
61	SMA (alpha) (1A4)	Smooth Muscle Actin	rb	Ms-mAb
7	SMA (alpha)(C04018)	Smooth Muscle Actin	h.m.rt	Rabbit-mAb
130	SMA Ab-1 (alpha) (1A4) (Biotin)	Smooth Muscle Actin	h.m.rt,rb	Ms-mAb
117	Smad2 (phospho Ser465/467)	Signal transduct	h.m.rt	Rabbit-p
72	Stat3 (phospho Tyr705)	Signal transduct	h.m.rt	Rabbit-mAb
71	Stat3a	Signal transduct	h.m.rt	Rabbit-mAb
111	TER-119/Erythroid Cells	Erythroid Cell Marker	m	Rat-mAb
102	Transferrin	Erythoid marker	h.m.rt	Rabbit -p
47	TTF-1 (8G7G3/1)	Differentiation lung-cancer	h.rt	Ms-mAb
63	TTF-1 (EPR5955(2)	Differentiation lung-cancer	h.m.rt	Rabbit-mAb
129	Tyrosine Hydroxylase	Dopaminergic neuron marker	h.m	Rabbit-p
158	VCAM1[EPR5047]	Activated Endothelial Cell	h.m.rt	Rabbit-mAb
114	VEGF	Misc tumors	h.m.rt	Pabbit-p
18	Vimentin (EPR3776)	Intermediate filament	h.m.rt	Rabbit-mAb
33	Von Willebrand Factor (vWF)	Endothelial cell	m.rt	Rabbit-p
66	Ym1	Macrophage	m	Goat-p

\* Lectin binding proteins

Abbreviation: h:human; m: mouse; rt:rat; rb: rabbit p: pig;