

# Immunohistochemistry

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**Hours:** 7 a.m. - 5 p.m.  
Monday - Friday

The Immunohistochemistry Laboratory provides immunohistochemical and in situ hybridization staining on slide based tissue specimens for the Allina Medical Laboratories. The laboratory serves as a reference laboratory for clinical outreach work and as a resource for clinical research projects.

Immunohistochemical methods are useful in determining the cell lineage of tumors, to compliment the histologic assessment in reaching a clinical diagnosis. This information may provide prognostic information regarding malignant tumors by analyzing receptor status, protein production, and proliferation potentials of a particular tumor. A variety of samples are appropriate, such as, paraffin-embedded tissue, cell suspensions, or cell smears. In situ hybridization analysis is performed on formalin fixed paraffin-embedded tissue. It is a highly sensitive analysis that evaluates for RNA and DNA transcripts within cells. This technique can determine the presence of light chain immunoglobulins, which are extremely important in the evaluation of benign and malignant plasmacytic and lymphoid proliferations. This testing can also be used to identify viral infections that may have clinical implications, significant for patient prognosis.

Routine clinical testing is performed on a daily basis (Monday - Friday), and results are reported in 24 to 48 hours. The following is a listing of currently provided testing. If consultation or additional testing is required, please contact the pathologists or the laboratory directly.

## IMMUNOHISTOCHEMICAL MARKERS

ACTH	CD-45RO (UCHL-1)	FLI-1	OCT 3/4
Adenovirus	CD-56	GFAP	P16
ALK-1	CD57 (Leu7)	Glycophorin A	P53
Alpha 1 Antitrypsin	CD-61 (GPIII A)	Glypican 3	P57
Alpha Fetoprotein	CD-68 (KP1)	Granzyme B	P63
AP-15 (GCDFP-15)	CD-74 (LN2)	HBME-1	P504S
B72.3	CD-79a (pan B cell)	HCG	P504S/P63 Cocktail
Bcl-1	CD-99 (OC13)	Hepatitis B Surf. Ag	Parafibromin
Bcl-2	CD014	Hep Par 1	Parvovirus
Bcl-6	CD-138	Her2Neu	Pax2
BCA225	CEA (Mono)	Herpes I & II	Pax5
Ber.Ep4	CEA (Poly)	HHV-8	PgR
Beta-Amyloid	Chromogranin	HMB45	PLAP
Beta-Catenin	C Kit (CD117)	H. pylori	Pneumocystis
Beta- F1	Claudin-1	HPL	ProCollagen 1
BG8	CMV	Human Growth	Prolactin
CA19.9	Collagen IV	Hormone	Progesterone rec.
CA125	CXCL13	IgA	PSA
Calcitonin	Cytokeratin 5/6	IgG	PSAP
Caldesmin	Cytokeratin 7	IgM	PTH
Calretinin	Cytokeratin 17	Inhibin	RCC
Cat Scratch	Cytokeratin 19	Ki-67 (MIB-1)	S-100
CD1a	Cytokeratin 20	Kappa	Smooth Musc.Actin
CD-2	Cytokeratin 88	Lambda	SMMS
CD-3 (T cell)	Cytokeratin (cocktail)	Lysozyme	Synaptophysin
CD-4	Cytokeratin AE1/AE3	Mammoglobin	Synuclein
CD-5	Cytokeratin CAM5.2	Mart – 1	Tau
CD-7	Cytokeratin LMW	Mast Cell Tryptase	Tdt
CD-8	Cytokeratin HMW	Melan A/A103	Thyroglobulin
CD-10	Cytokeratin MAK-6	Melanoma Cocktail	TIA-1A
CD-15 (LeuM1)	Cytokeratin MNF-116	MOC-31	Toxo
CD-20 (B cell, L-26)	Cytokeratin OSCAR	MUM-1	TRACP
CD-21	Cytokeratin WSS	Muscle Spec. Actin (MSA/HHF35)	Treponema
CD-22	D2-40	Mycobacteria	TSH
CD-23	Desmin	MPO (Mono)	TTF-1
CD-25	DBA.44	MPO (Poly)	Tyrosinase
CD-30/Ki-1 (Ber H2)	EBV	Myogenin	Ubiquitin
CD-31	EGFR	Neu-N	Uroplakin
CD-34	EMA	Neurofilament	Varicella Zoster
CD-35	ER	NKI/C3	Villin
CD-43 (Leu22)	E-Cadherin	NSE	Vimentin
CD44	Factor VIII	OCT2	WT1
CD-45 (LCA)	Factor XIIIa		Zap-70

**ADDITIONAL IHC MARKERS**

Pituitary Kit: (ACTH, FSH, HGH, LH, PROL, TSH)

Pancreas Kit: (Gastrin, Glucagon, Insulin, Pancreatic Polypeptide , Somatostatin, VIP)

Microsatellite Instability Markers: (hMLH-1, hMSH-2, hMSH-6, hPMS2)

**CYTOKERATINS**

AE1/AE3	CK17	LMW CK
CAM5.2	CK19	MNF-116
CK-OSCAR	CK20	MAK-6
CK5/6	CK88	WSS-CK
CK7	HMW CK	

**IN SITU HYBRIDIZATIN MARKERS**

HPV  
 EBV  
 KAPPA  
 LAMBDA