

CIIA IHC Antibodies

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Overview

The CIIA provides full-service, research-grade, immunohistochemistry (IHC) support including antibody testing and optimization, staining and scanning, and image analysis.

Explore our growing list of optimized human and mouse antibodies (**Pages 2-6**) and connect with us at ciia@uhn.ca to optimize new antibodies to support your discovery, translational and clinical research needs.

IMPORTANT: Please connect with us about antibody availability during the project planning stage. Currently, we require clients and collaborators to provide enough stock antibodies (e.g., vials or aliquots) for their projects.

Sample Requirements

Please refer to our [Sample Requirements and Submission Guidelines](#).

Data Analysis Software

The CIIA uses [HALO®](#) software and [QuPath](#) for image analysis including tissue and cell segmentation, and phenotyping and marker expression analysis.

Image and Data Delivery and File Formats

Data can be delivered in a range of formats including image files compatible with downstream image analysis platforms, summary reports, and publication-ready figures.

Note: Although vendor specifications may indicate that certain antibodies are suitable for both human and mouse tissues, the tables below list only antibodies that have been tested and optimized by CIIA for the respective tissue type.

Human IHC Antibodies (1/3)

Target	Vendor	Cat. No.	Clone	Compatibility	
				FFPE	Frozen
4-1BB	R&D Systems	AF838	Polyclonal	Yes	Not Tested
4-1BBL	R&D Systems	AF2295	Polyclonal	Yes	Not Tested
α -SMA	Invitrogen	MA511547	1A4 (asm-1)	Yes	Not Tested
β -2-M	SantaCruz	sc-13565	BBM.1	Yes	Not Tested
β -TRCP	Abcam	Ab233739	3D5E6	Yes	Not Tested
B7-H3	AbNova	12173	SP206	Yes	Not Tested
B7-H4	Cell Signaling	14572S	D1M8I	Yes	Not Tested
BCL6	Abcam	ab220092	Polyclonal	Yes	Not Tested
BLBP	Abcam	ab279649	EPR24033-13	Yes	Not Tested
BST2	Abcam	ab88523	Polyclonal	Yes	Not Tested
CD103	Abcam	ab129202	EPR4166(2)	Yes	Not Tested
CD117	R&D Systems	AF1356	Polyclonal	Yes	Not Tested
CD11b	Abcam	ab133357	EPR1344	Yes	Not Tested
CD11c	Abcam	ab52632	EP1347Y	Yes	Not Tested
CD14	Abcam	ab133335	EPR3653	Yes	Not Tested
CD15	Abcam	ab135377	SP159	Yes	Not Tested
CD155	Cell Signaling	13544S	D3G7H	Yes	Not Tested
CD16	SantaCruz	sc-20052	DJ130c	Yes	Not Tested
CD163	Abcam	ab182422	EPR19518	Yes	Not Tested
CD169	Novus	NB600-534	HSn 7D2	Yes	Not Tested
CD20	Abcam	ab78237	EP459Y	Yes	Not Tested
CD21	Abcam	ab75985	EP3093	Yes	Not Tested
CD27	Abcam	ab131254	EPR8569	Yes	Not Tested
CD28	Invitrogen	MA536070	RM404	Yes	Not Tested
CD3	R&D Systems	AF342-PB	Polyclonal	Yes	Not Tested
CD3	Abcam	ab5690	Polyclonal	Yes	Yes
CD31	Abcam	ab243228	EPR22076	Yes	Not Tested
CD34	Abcam	AB8536	QBEND/10	Yes	Not Tested
CD4	Abcam	ab181724	EPR6855	Yes	Not Tested
CD45	Abcam	ab40763	EP322Y	Yes	Not Tested
CD56	Abcam	ab133345	EPR2566	Yes	Not Tested
CD68	Thermo	MS-397-P1ABX	KP1	Yes	Not Tested
CD73	Abcam	ab91086	1-D7	Yes	Not Tested
CD8	Dako	GA62361-2	C8	Yes	Not Tested
CD8	Dako	108M-97	C8 #144B	Yes	Not Tested
CD94	Abcam	ab235441	EPR21003	Yes	Not Tested

Human IHC Antibodies (2/3)

Target	Vendor	Cat. No.	Clone	Compatibility	
				FFPE	Frozen
CHI3L1	Abcam	ab77528	Polyclonal	Yes	Not Tested
CK5/6	Dako	790-4554	D5/16B4	Yes	Not Tested
CTLA-4	SantaCruz	sc-376016	F-8	Yes	Not Tested
CXCR3	Abcam	ab64714	49801	Yes	Not Tested
CXCR4	Abcam	ab181020	EPUMBR3	Yes	Not Tested
Cytokeratin (CK8/18)	Thermo	180213	Zym5.2	Yes	Not Tested
ERK	Cell Signaling	#4695	137F5	Yes	Not Tested
FABP7	Invitrogen	PA5-24949	Polyclonal	Yes	Not Tested
FOXP3	Abcam	ab20034	236A/E7	Yes	Not Tested
Galectin 9	Abcam	ab153673	1G3	Yes	Not Tested
Granzyme B	R&D Systems	AF1865	Polyclonal	Yes	Not Tested
Her2	Cell Signaling	2165	29D8	Yes	Not Tested
HLA-ABC	Abcam	ab70328	EMR8-5	Yes	Not Tested
HLA-DR	Abcam	ab20181	TAL 1B5	Yes	Not Tested
HLA-E	Thermo	MA1-19309	MEM-E/02	Yes	Not Tested
IBA-1	Invitrogen	PA5-27436	Polyclonal	Yes	Not Tested
ICOS	Abcam	ab105227	SP98	Yes	Not Tested
IDH1 R132H	Biozol	DNA-DIA-H09	H09	Yes	Not Tested
IDO1	Millipore Sigma	MAB10009	1F8.2	Yes	Not Tested
IFNAR1	Thermo	MA5-32006	SR45-08	Yes	Not Tested
iNOS	Novus	NBP2-22119	4E5	Yes	Not Tested
IRF7	Thermo	PA5-79519	Polyclonal	Yes	Not Tested
ISG15	SantaCruz	sc-166755	F-9	Yes	Not Tested
Jab1	Abcam	ab12323	Polyclonal	Yes	Not Tested
Ki67	Abcam	ab15580	Polyclonal	Yes	Not Tested
Ki67	Zeta	Z2031	SP6	Yes	Not Tested
LAG3	Abcam	ab40466	17B4	Yes	Not Tested
LAIR1	Thermo	PA5-82418	Polyclonal	Yes	Not Tested
Lilrb5	Millipore Sigma	HPA012069	Polyclonal	Yes	Not Tested
LSECTin	Abcam	ab181196	EPR13724	Yes	Not Tested
LYVE1	Abcam	ab33682	Polyclonal	Yes	Not Tested
MAGE-A3	Thermo	MA5-26486	OTI1G9	Yes	Not Tested
MHC Class I	SantaCruz	sc-55582	F-3	Yes	Not Tested
MIC-A/B	SantaCruz	sc-137242	F-6	Yes	Not Tested
MPO	Abcam	ab9535	Polyclonal	Yes	Not Tested
MX1	Abcam	ab95926	Polyclonal	Yes	Not Tested
Nectin 2	Cell Signaling	95333S	D8D3F	Yes	Not Tested
NKp46	R&D Systems	MAB1850	195314	Yes	Not Tested
NRSF	Abcam	ab70300	Polyclonal	Yes	Not Tested
NYESO-1	Thermo	35-6200	E978	Yes	Not Tested

Human IHC Antibodies (3/3)

Target	Vendor	Cat. No.	Clone	Compatibility	
				FFPE	Frozen
p53	Invitrogen	MA512571	DO-1	Yes	Not Tested
PD-1	Abcam	ab137132	EPR4877(2)	Yes	Not Tested
PD-L1	Abcam	ab228415	73-10	Yes	Not Tested
PD-L1	Abcam	ab228462	SP142	Yes	Not Tested
PD-L2	Abcam	ab288298	EPR25200-50	Yes	Not Tested
p-ERK	Cell Signaling	#4370	D13.14.4E	Yes	Not Tested
PKR	Abcam	ab32052	YE350	Yes	Not Tested
PNAAd	BioLegend	120802	MECA-79	Yes	Not Tested
PRAME	Abcam	ab219650	EPR20330	Yes	Not Tested
SOCS1	Abcam	ab9870	Polyclonal	Yes	Not Tested
SPA17	Sigma	HPA037568	Polyclonal	Yes	Not Tested
SSX2	Thermo	MA5-24971	OTI4D10	Yes	Not Tested
Survivin	Abcam	ab76424	EP2880Y	Yes	Not Tested
TCR-δ	SantaCruz	sc-100289	H-41	Yes	Not Tested
Tia1	Abcam	ab2712	TIA-1	Yes	Not Tested
TIGIT	Abcam	ab243903	BLR047F	Yes	Not Tested
TIM-3	Cell Signaling	45208	D5D5R	Yes	Not Tested
TTK	Thermo	10381-1-AP	Polyclonal	Yes	Not Tested
VEGFR2	Cell Signaling	2479S	55B11	Yes	Not Tested
VEGFR3	Abcam	ab27278	Polyclonal	Yes	Not Tested

Note: Although vendor specifications may indicate that certain antibodies are suitable for both human and mouse tissues, the tables below list only antibodies that have been tested and optimized by CIIA for the respective tissue type.

Mouse IHC Antibodies (1/2)



Target	Vendor	Cat. No.	Clone	Compatibility	
				FFPE	Frozen
α -SMA	Abcam	ab5694	Polyclonal	Yes	Not Tested
α -5 integrin	Abcam	ab179475	EPR16800	Yes	Not Tested
AHR	Enzo	BML-SA210	Polyclonal	Yes	Not Tested
β -1 integrin	Abcam	ab179471	EPR16895	Yes	Not Tested
β -3 integrin	Cell Signaling	13166	D7X3P	Yes	Not Tested
β -3 tubulin	Cell Signaling	5568	D71G9	Yes	Not Tested
CD11b	Abcam	ab133357	EPR1344	Yes	Yes
CD11c	Thermo	14-0114-82	N418	No	Yes
CD206	Abcam	ab300621	EPR25215-277	Yes	Not Tested
CD3	Abcam	ab5690	Polyclonal	Yes	Yes
CD4	Abcam	ab183685	EPR19514	Yes	Not Tested
CD4	Novus	NB110-97869	AP-MAB0707	Not Tested	Yes
CD40	Abcam	ab317586	RM1193	Yes	Not Tested
CD45	R&D Systems	AF114	Polyclonal	Yes	Not Tested
CD45R/B220	BD	553086	RA3-6B2	Yes	Yes
CD68	Abcam	ab125212	Polyclonal	Yes	Not Tested
CD74	R&D Systems	AF-7478	Polyclonal	Yes	Not Tested
CD8	Novus	NB200-578	YTS105.18	Not Tested	Yes
CD8	Abcam	ab209775	EPR20305	Yes	Not Tested
CD86	R&D Systems	NBP2-12182	AP-MAB0803	Yes	Not Tested
Cytokeratin 19 (CK19)	DSHB	TROMA-III	TROMA-III	Yes	Not Tested
Cleaved Caspase 3	Cell Signaling	9661	Asp175	Yes	Not Tested
Cleaved Notch1	Cell Signaling	4147	Val1744 D3B8	Yes	Not Tested
Collagen IV	Abcam	ab6586	Polyclonal	Yes	Not Tested
Cyclin D1	Abcam	ab134175	EPR2241	Yes	Not Tested
F4/80	Invitrogen	MF48000	BM8	Yes	Not Tested
Galectin 9	Thermo	PA5-115266	Polyclonal	Yes	Not Tested
ICAM-1	R&D Systems	AF796	Polyclonal	Yes	Not Tested
Keratin 10	BioLegend	905404	Poly19054	Yes	Not Tested
Ki67	Abcam	ab15580	Polyclonal	Yes	Not Tested
Laminin-1	R&D Systems	MAB2549	AL-2	Yes	Not Tested
MHC-I	BioLegend	125502	M1/42	Not Tested	Yes
MHC-II	Novus	NBP2-21789	M5/114	Not Tested	Yes
Nephrin	ProGen	GP-N2	Polyclonal	Yes	Not Tested
NK 1.1	BioLegend	108701	PK136	Not Tested	Yes

Mouse IHC Antibodies (2/2)



Target	Vendor	Cat. No.	Clone	Compatibility	
				FFPE	Frozen
p-STAT3	Cell Signaling	9145	D3A7	Yes	Not Tested
p-STAT5	Cell Signaling	9359	C11C5	Yes	Not Tested
P2X7	Alomone Labs	APR-008	Polyclonal	Yes	Not Tested
Pan Cytokeratin	Novus	NBP2-29429	AE-1/AE-3	Yes	Not Tested
Pax2	BioLegend	901001	Polyclonal	Yes	Not Tested
PD-1	Abcam	ab309363	RM1033	Yes	Not Tested
PD-L1	Cell Signaling	33275	D5V3B	Yes	Not Tested
PDGFR alpha	Cell Signaling	3174	D1E1E	Yes	Not Tested
Pericentrin	Abcam	ab4448	Polyclonal	Yes	Not Tested
Plasminogen	Abcam	ab242329	EPR22254-115	Yes	Not Tested
PLGRKT	Thermo	PA5-98932	Polyclonal	Yes	Not Tested
Rad 50	Abcam	ab208019	EPR20968	Yes	Not Tested
Rad 51	Abcam	ab133534	EPR4030(3)	Yes	Not Tested
SOX2	R&D Systems	AF2018	Polyclonal	Yes	Not Tested
Synaptopodin	ProGen	GP94	Polyclonal	Yes	Not Tested
Tyrosine Hydroxylase	Millipore	AB152	Polyclonal	Yes	Not Tested
Ubiquitin Lys 48	Millipore	05-1307	Apu2	Yes	Not Tested
Ubiquitin Lys 63	Millipore	05-1308	Apu3	Yes	Not Tested
VCAM-1	Cell Signaling	32653	D2T4N	Yes	Not Tested
Yap-Taz	Cell Signaling	8418	D24E4	Yes	Not Tested

Other IHC Antibodies (1/1)

Target	Vendor	Cat. No.	Clone	Compatibility	
				FFPE	Frozen
GFP	Novus	NB100-1678	Polyclonal	Yes	Yes
mCherry / RFP	Thermo	PA5-3497	Polyclonal	Yes	Not Tested
Pimonidazole	Hydroxyprobe Inc.	HP2-100 kit	11.23.22.r	Yes	Not Tested