

id	title	alias[]	antibody. set[]	picture_url	description 1	description 2	description 3	popularity
CD19	CD19				cytoplasmic an	tonsil	pan-B cell markers	4
CD20	CD20	L26			membranous	tonsil, lymph no	pan-B cell markers	5
CD21	CD21		histiocytic/ dendric cell lesions;Lymph		cytoplasmic, m	tonsil, lymph no	B cells, follicular dendritic cells(FDC), other	4
CD22	CD22				cytoplasmic and membranous		pan-B cell markers	2
CD23	CD23		histiocytic/ dendric cell lesions		membranous and Golgi(paranuc		B cells, follicular dendritic cells(FDC), monoc	4
CD24	CD24							2
CD25	CD25	IL-2α;Interleukin-2alpha;IL2 receptor			membranous a	lesion of mastoc	activated T and B cells	2
CD26	CD26							1
CD30	CD30	ki-1;Ber H2	Testicular cerm cell tumours;Germ cell		membranous	classic Hodgkin	activated B(immunoblasts) and T lymphocy	4
CD31	CD31		Skin : spindle cell tumor;immunophen		cytoplasmic an	tonsil	endothelial cells, megakaryocytes, macroph	2
CD32	CD32	FcγR II;Fc gamma receptors II						2
CD33	CD33				membranous	acute myeloid le	flow marker, myeloid cells, monocytes	2
CD34	CD34		Immunohistochemistry of Prostatic me		membranous	tonsil, placenta	endothelial cells, fibroblasts and hematopoc	4
CD35	CD35		histiocytic/ dendric cell lesions;Lymph		membranous	tonsil	B cells, follicular dendritic cells(FDC), other	3
CD38	CD38				cytoplasmic, m	plasma cell myel	immature lymphocytes, plasma cells	3
CD39	CD39							2
CD40	CD40							2
CD43	CD43				membranous	tonsil, lymph no	T cells, myelocytes	3
CD43RO	CD43RO							3
CD44	CD44		Reactive urothelial atypia vs. carcinoma		membranous	benign urotheliu	normal urothelium (basal layer), also consi	3
CD44V6	CD44v6		Marker expression in benign and malignant thyroid lesions					3
CD45	CD45	leukocyte comm	Differential Diagnosis of Small Round		membranous	tonsil, lumph no	pan-leukocytes marker (lymphocytes, myelo	5
CD45RB	CD45RB							1
CD45RA	CD45RA							1
CD45RO	CD45RO				membranous	tonsil		4
CD51	CD51							2
CD52	CD52							1
CD54	CD54							1
CD56	CD56	N-CAM;NCAM;N	Immunophenotype of Mediastinal neu		cytoplasmic, m	neuroblastoma	neuroendocrine cells, schwann cells, NK ce	5
CD57	CD57	Leu-7;Leu7	Immunophenotype of Mediastinal neu		membranous	tonsil	neuroendocrine cells, schwann cells, NK ce	4
CD58	CD58							2
CD61	CD61				cytoplasmic	bone marrow	flow marker, Megakaryocytes, platelets	1
CD63	CD63	NK1/C3	Melanotic Lesions;Spindle cell melanon		cytoplasmic, m	melanoma		2
CD66c	CD66c							1

Supplementary Fig. S4. An example of a patient's immunohistochemistry profile dataset for training and validation of the diagnosis precision algorithm.