

TABLE 2: Paulovich Lab Monoclonal antibodies currently in development.

Gene Symbol	Target Protein Name	UniProt ID (& link)	Peptide Modification	Modification site	Assay Species	Notes	Mouse or rabbit
BAD	BCL2-associated agonist of cell death	Q92934	Non-modified		Human		Rabbit
BARD1	BRCA1 associated RING domain 1	Q99728	Non-modified		Human		Mouse
BCL2	B-cell CLL/lymphoma 2	P10415	Non-modified		Human		Mouse
BCL2L1	BCL2 Like 1;Protein Phosphatase 1, Regulatory Subunit 52	Q07817	Non-modified		Human		Mouse
BRCA1	Breast cancer type 1 susceptibility protein	P38398	Non-modified		Human		Rabbit
BRCA2	breast cancer 2, early onset	P51587	Non-modified		Human		Mouse
BRCA2	breast cancer 2, early onset	P51587	Non-modified		Human		Rabbit
CASP14	Caspase-14	P31944	Non-modified		Human		Mouse
CCNB1	cyclin B1	P14635	Non-modified		Human		Mouse
CD44	CD44 antigen	P16070	Non-modified		Human		Mouse
CD58	Lymphocyte function-associated antigen 3	P19256	Non-modified		Human		Rabbit
CD86	CD86 molecule	Q6GTS4	Non-modified		Human		Rabbit
CD99	CD99 antigen	P14209	Non-modified		Human		Rabbit
CDK12	cyclin dependent kinase 12	Q9NYV4	Non-modified		Human		Rabbit
CDKN1A	cyclin-dependent kinase inhibitor 1A (p21, Cip1)	P38936	Non-modified		Human		Rabbit
CGAS	Cyclic GMP-AMP synthase	Q8N884	Non-modified		Human		Rabbit
CRP	C-reactive protein, pentraxin-related	P02741	Non-modified		Human		Rabbit
CSF1R	colony stimulating factor 1 receptor	P07333	Non-modified		Human		Rabbit
CTLA4	cytotoxic T-lymphocyte-associated protein 4	P16410	Non-modified		Human		Rabbit
CXCL12	Stromal cell-derived factor 1	P48061	Non-modified		Human		Mouse
DDX11	DEAD/H-box helicase 11	Q96FC9	Non-modified		Human		Rabbit
DYNLL1	Dynein light chain 1, cytoplasmic	P63167	Non-modified		Human		Rabbit
ERCC3	General transcription and DNA repair factor IIH helicase subunit XPB	P19447	Non-modified		Human		Rabbit
FADD	FAS-associated death domain protein	Q13158	Non-modified		Human		Mouse
FANCC	Fanconi anemia, complementation group C	Q00597	Non-modified		Human		Mouse
FANCI	Fanconi anemia, complementation group I	Q9NVI1	Non-modified		Human		Mouse
FAS	Fas (TNF receptor superfamily, member 6)	Q5T9P1	Non-modified		Human		Rabbit
FH	Fumarate hydratase, mitochondrial	P07954	Non-modified		Human		Rabbit
FOLR1	Folate receptor alpha	P15328	Non-modified		Human		Mouse
GIT2	ARF GTPase-activating protein GIT2	Q14161	Non-modified		Human		Rabbit
HLA-B	major histocompatibility complex, class I, B	Q9TP95	Non-modified		Human		Rabbit
HLA-DPB1	major histocompatibility complex, class II, DP beta 1	P04440	Non-modified		Human		Rabbit
HLA-DQB1	major histocompatibility complex, class II, DQ beta 1	P01920	Non-modified		Human		Rabbit
HLA-F	major histocompatibility complex, class I, F	P30511	Non-modified		Human		Rabbit
HMGB1	high mobility group box 1	P09429	Phosphorylation	pS35	Human		Mouse
HMGB1	High mobility group protein B1	P09429	Non-modified		Human		Rabbit
HUS1	HUS1 checkpoint clamp component	Q60921	Non-modified		Human		Rabbit
IKBK	inhibitor of kappa light polypeptide gene enhancer in B-cells	Q9Y6K9	Non-modified		Human		Rabbit
IL10RB	interleukin 10 receptor, beta	Q08334	Non-modified		Human		Rabbit
IL1RAP	interleukin 1 receptor accessory protein	Q9NPH3	Non-modified		Human		Rabbit
IL6ST	interleukin 6 signal transducer (gp130, oncostatin M receptor)	P40189	Non-modified		Human		Rabbit
IRF3	Interferon regulatory factor 3	Q14653	Non-modified		Human		Rabbit
ITGB5	Integrin beta-5	P18084	Non-modified		Human		Mouse
JAK2	Janus kinase 2	Q60674	Non-modified		Human		Rabbit
KMT2C	Histone-lysine N-methyltransferase 2C	Q8NEZ4	Non-modified		Human		Mouse
LAG3	lymphocyte-activation gene 3	P18627	Non-modified		Human		Rabbit
LIG4	DNA ligase 4	P49917	Non-modified		Human		Rabbit
MET	Hepatocyte growth factor receptor	P08581	Non-modified		Human		Rabbit
MR1	Major histocompatibility complex class I-related gene protein	Q95460	Non-modified		Human		Rabbit
MRE11A	Double-strand break repair protein MRE11	P49959	Non-modified		Human		Rabbit
MSH3	mutS homolog 3	P20585	Non-modified		Human		Rabbit
MUC16	Ovarian Carcinoma Antigen CA125	Q8WXI7	Non-modified		Human		Rabbit

N/A (motif ab)	anti-phospho Tyrosine motif		Phosphorylation	pY motif	Human		Rabbit
N/A (motif ab)	anti-Acetylated Lysine motif		Acetylation	Ac-K motif	Human		Rabbit
N/A (motif ab)	anti-Ubiquitin motif		Ubiquitination	Ub motif	Human		Rabbit
PDCD1	programmed cell death 1	Q15116	Non-modified		Human		Rabbit
PDIA3	Protein disulfide-isomerase A3	P30101	Non-modified		Human		Mouse
PFKFB3	6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 3	Q16875	Non-modified		Human		Mouse
PMS2	PMS2 postmeiotic segregation increased 2 (S. cerevisiae)	P54278	Non-modified		Human		Rabbit
POLB	DNA polymerase beta	P06746	Non-modified		Human		Rabbit
POLE	polymerase (DNA directed), epsilon	Q07864	Non-modified		Human		Rabbit
POLE3	DNA polymerase epsilon subunit 3	Q9NRF9	Non-modified		Human		Mouse
POLM	polymerase (DNA directed), mu	Q9NP87	Non-modified		Human		Mouse
PRF1	perforin 1 (pore forming protein)	P14222	Non-modified		Human		Rabbit
PRKDC	protein kinase, DNA-activated, catalytic polypeptide	P78527	Non-modified		Human		Mouse
RB1	Retinoblastoma-associated protein	P06400	Non-modified		Human		Rabbit
RECQL	RecQ like helicase	P46063	Non-modified		Human		Rabbit
RNASEH2A	ribonuclease H2 subunit A	Q75792	Non-modified		Human		Rabbit
RPA1	replication protein A1	P27694	Non-modified		Human		Rabbit
SDHB	Succinate dehydrogenase [ubiquinone] iron-sulfur subunit, mitochondrial	P21912	Non-modified		Human		Rabbit
SDHC	Succinate dehydrogenase cytochrome b560 subunit, mitochondrial	Q99643	Non-modified		Human		Rabbit
SIGLEC9	sialic acid binding Ig-like lectin 9	Q9Y336	Non-modified		Human		Rabbit
SIRPA	signal-regulatory protein alpha	P78324	Non-modified		Human		Rabbit
SLAMF1	signaling lymphocytic activation molecule family member 1	Q13291	Non-modified		Human		Rabbit
SLAMF7	SLAM family member 7	Q9NQ25	Non-modified		Human		Rabbit
SPARC	SPARC	P09486	Non-modified		Human		Mouse
STAT2	Signal transducer and activator of transcription 2	P52630	Non-modified		Human		Mouse
STAT3	signal transducer and activator of transcription 3 (acute-phase response factor)	P40763	Phosphorylation	pY705	Human		Rabbit
STAT5A	signal transducer and activator of transcription 5A	P42229	Phosphorylation	pS780	Human		Rabbit
STAT5B	signal transducer and activator of transcription 5B	P51692	Phosphorylation	pS193	Human		Rabbit
TBK1	TANK-binding kinase 1	Q9UHD2	Non-modified		Human		Rabbit
TCOF1	Treacle protein	Q13428	Non-modified		Human		Mouse
TMEM173	transmembrane protein 173	Q86WV6	Phosphorylation	pS358	Human		Rabbit
TP53BP1	tumor protein p53 binding protein 1	Q12888	Non-modified		Human		Rabbit
TREX1	three prime repair exonuclease 1	Q9NSU2	Non-modified		Human		Rabbit
TXN	Thioredoxin	P10599	Non-modified		Human		Mouse
VEGFA	vascular endothelial growth factor A	P15692	Non-modified		Human		Rabbit
XPA	DNA repair protein complementing XP-A cells	P23025	Non-modified		Human		Rabbit
YTHDF2	YTH domain-containing family protein 2	Q9Y5A9	Non-modified		Human		Rabbit