

Rabbit anti-Human PTPRC Polyclonal Antibody | anti-PTPRC antibody

PTPRC Antibody (N-term)

CATALOG # AAA289482	HOST Rabbit	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay, ELISA, Western Blot
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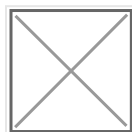
PRODUCT SYNONYMS

PTPRC; Polyclonal Antibody; PTPRC Antibody (N-term); Receptor-type tyrosine-protein phosphatase C; Leukocyte common antigen; L-CA; T200; CD45; anti-PTPRC antibody

PRODUCT SPECIFICATIONS

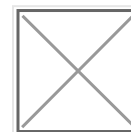
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PTPRC antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 336-364 amino acids from the N-terminal region of human PTPRC.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.3 (varies by lot)
Sequence Positions	336-364
Sequence Length	1,143
Applicable Applications for anti-PTPRC antibody	FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)

PTPRC Antibody (N-term) flow cytometric analysis of Jurkat cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.



WB (Western Blot)

PTPRC Antibody (N-term) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the PTPRC antibody detected the PTPRC protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-PTPRC antibody	The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus belongs to receptor type PTP. This gene is specifically expressed in hematopoietic cells. This PTP has been shown to be an essential regulator of T- and B-cell antigen receptor signaling. It functions through either direct interaction with components of the antigen receptor complexes, or by activating various Src family kinases required for the antigen receptor signaling. This PTP also suppresses JAK kinases, and thus functions as a regulator of cytokine receptor signaling. Four alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported. [provided by RefSeq].
Product Categories/Family for anti-PTPRC antibody	Cancer; Immunology; Neuroscience; Signal transduction
References	Heyd, F., et al. Mol. Cell 40(1):126-137(2010) Wu, Z., et al. J. Immunol. 185(1):231-238(2010) Cui, J., et al. Arthritis Rheum. 62(7):1849-1861(2010) Booth, N.J., et al. J. Immunol. 184(8):4317-4326(2010) Capitanescu, B., et al. Rom J Morphol Embryol 51(1):49-54(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	392307007
NCBI GeneID	5788
NCBI Accession #	NP_002829.3; NP_563578.2
NCBI GenBank Nucleotide #	NM_002838.4
UniProt Accession #	P08575; Q16614; Q9H0Y6; A8K7W6
Molecular Weight	147254
NCBI Official Full Name	receptor-type tyrosine-protein phosphatase C isoform 1
NCBI Official Synonym Full Names	protein tyrosine phosphatase, receptor type, C
NCBI Official Symbol	PTPRC
NCBI Official Synonym Symbols	LCA; LY5; B220; CD45; L-CA; T200; CD45R; GP180
NCBI Protein Information	receptor-type tyrosine-protein phosphatase C
UniProt Protein Name	Receptor-type tyrosine-protein phosphatase C
UniProt Gene Name	PTPRC
UniProt Synonym Gene Names	CD45; L-CA
UniProt Entry Name	PTPRC_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.