

## Active Recombinant Human PTPRC, His-tagged

Cat. No. PTPRC-1522H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human PTPRC (604-end) was expressed in Sf9 insect cells using an N-terminal His tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	604 aa-end
<b>Description</b>	<p>PTPRC (CD45) 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. PTPRC 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.</p>
<b>Form</b>	Recombinant protein stored in 50mM MOPS, pH 7.0, 300mM NaCl, 150mM imidazole, 0.1mM PMSF, 0.25mM DTT, 25% glycerol.
<b>Bio-activity</b>	11,500 nmol/min/mg
<b>Molecular Mass</b>	~95 kDa
<b>Purity</b>	>90%

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<b>Applications</b>	Phosphatase Assay, Western Blot
<b>Storage</b>	Store at $-70^{\circ}\text{C}$ . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.1 $\mu\text{g}/\mu\text{l}$
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	PTPRC protein tyrosine phosphatase, receptor type, C [ Homo sapiens ]
<b>Official Symbol</b>	PTPRC
<b>Synonyms</b>	PTPRC; protein tyrosine phosphatase, receptor type, C; CD45; receptor-type tyrosine-protein phosphatase C; GP180; LCA; T200; CD45 antigen; T200 glycoprotein; leukocyte common antigen; leukocyte-common antigen; T200 leukocyte common antigen; protein tyrosine phosphatase, receptor type, c polypeptide; LY5; B220; L-CA; CD45R;
<b>Gene ID</b>	5788
<b>mRNA Refseq</b>	NM_002838
<b>Protein Refseq</b>	NP_002829
<b>MIM</b>	151460
<b>UniProt ID</b>	P08575
<b>Chromosome Location</b>	1q31-q32

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**Pathway**

Adaptive Immune System, organism-specific biosystem; Axon guidance, organism-specific biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; BCR signaling pathway, organism-specific biosystem; CXCR4-mediated signaling events, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem;

**Function**

hydrolase activity; protein binding; protein kinase binding; protein tyrosine phosphatase activity; receptor activity; transmembrane receptor protein tyrosine phosphatase activity;

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