

# Recombinant Human protein tyrosine phosphatase, receptor type, C, His-tagged

Cat. No. PTPRC-480H Lot. No. (See product label)

## SPECIFICATION

**Product Overview** PTPRC, 1031-1251aa Human, His tag, E.coli

**Species** Human

**Source** E.coli

**ProteinLength** 1031-1251 a.a.

### Description

PTPRC, also known as CD45, 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, mitosis, and oncogenic transformation. This PTP contains an extracellular domain, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus is classified as a receptor type PTP. 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. Recombinant human PTPRC protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

### Form

Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

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<b>Molecular Mass</b>	29.6 kDa (257aa) confirmed by MALDI-TOF
<b>AA Sequence</b>	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSVMIA AQQPLKETIG DFWQMIFQRK VKVIVMLTEL KHGDQEICAQ YWGEGKQTYG DIEVDLKDTD KSSTYTLRVF ELRHSKRKDS RTVYQYQYTN WSVEQLPAEP KELISMIQVV KQKLPQKNSS EGNKHHKSTP LLIHCRDGSQ QTGIFCALLN LLESAETEEV VDIFQVVKAL RKARPGMVST FEQYQFLYDV IASTYPAQNG QVKKNNHQED KIEFDNE
<b>Purity</b>	>95% by SDS - PAGE
<b>Storage</b>	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
<b>Concentration</b>	0.25 mg/ml (determined by Bradford assay)

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">PTPRC protein tyrosine phosphatase, receptor type, C [ Homo sapiens ]</a>
<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>	<a href="#">5788</a>
<b>mRNA Refseq</b>	<a href="#">NM_002838</a>

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<b>Protein Refseq</b>	NP_002829
<b>MIM</b>	151460
<b>UniProt ID</b>	P08575
<b>Chromosome Location</b>	1q31-q32
<b>Pathway</b>	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;
<b>Function</b>	hydrolase activity; protein binding; protein kinase binding; protein tyrosine phosphatase activity; receptor activity; transmembrane receptor protein tyrosine phosphatase activity;

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