

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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Molecular Mass	29.6 kDa (257aa) confirmed by MALDI-TOF
AA Sequence	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWG SVMIA AQQPLKETIG DFWQMIFQRK VKVIVMLTEL KHGDQEICAQ YWGEGKQTYG DIEVDLKDTD KSSTYTLRVF ELRHSKRKDS RTVYQYQYTN WSVEQLPAEP KELISMIQVV KQKLPQKNSS EGNKHHKSTP LLIHCRDGSQ QTGIFCALLN LLESAETEEV VDIFQVVKAL RKARPGMVST FEQYQFLYDV IASTYPAQNG QVKKNNHQED KIEFDNE
Purity	>95% by SDS - PAGE
Storage	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.
Concentration	0.25 mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	PTPRC protein tyrosine phosphatase, receptor type, C [Homo sapiens]
Official Symbol	PTPRC
Synonyms	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;
Gene ID	5788
mRNA Refseq	NM_002838

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Protein Refseq	NP_002829
MIM	151460
UniProt ID	P08575
Chromosome Location	1q31-q32
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;