

## Recombinant Human PTPRC Protein, His-tagged

Cat. No. PTPRC-151H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Human protein tyrosine phosphatase, receptor type C (PTPRC) protein, transcript variant 1 (NM\_002838), with a His tag, was expressed in human cells.

**Species** Human

**Source** Human Cells

**Description** 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, 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. Alternatively spliced transcripts variants of this gene, which encode distinct isoforms, have been reported.

**Form** Purified protein formulated in a sterile solution of TBS buffer, pH7.145, without any preservatives.

**Molecular Mass** 63 kDa

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<b>Endotoxin</b>	Endotoxin level is < 0.1 ng/g of protein (<1EU /g)
<b>Purity</b>	>90% by SDS-PAGE gel and Coomassie Blue staining
<b>Applications</b>	Antigens, Western, ELISA and other in vitro binding or in vivo functional assays, and protein-protein interaction studies.

## GENE INFORMATION

<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

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