

Recombinant Mouse Protein Tyrosine Phosphatase, Receptor Type, C, GST-tagged

Cat. No. Ptprc-1623M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse PTPRC (592-end) was expressed in E.coli cells using an N-terminal GST tag.
Species	Mouse
Source	E.coli
ProteinLength	592-end a.a.
Description	Ptprc 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.
Applications	Phosphatase Assay; Western Blot
Molecular Weight	116 kDa
Expression System	E. coli
Form	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF 25 % glycerol.

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Specific Activity	9900 nmol/min/mg
Purity	> 80 %
Concentration	0.1 ug/ul
Sequences	592-end
Storage	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Pathways	Adaptive Immunity Signaling; Axon guidance; B Cell Receptor Signaling Pathway; Cell adhesion molecules (CAMs); EPO Receptor Signaling; Fc gamma R-mediated phagocytosis; Immune System; Phosphorylation of CD3 and TCR zeta chains; Primary immunodeficiency; Sema4D in semaphorin signaling; Semaphorin interactions; T Cell Receptor Signaling Pathway; TCR signaling

GENE INFORMATION

Gene Name	Ptprc protein tyrosine phosphatase, receptor type, C [<i>Mus musculus</i>]
Official Symbol	Ptprc
Synonyms	Ptprc; protein tyrosine phosphatase, receptor type, C; loc; B220; Cd45; Ly-5; T200; CD45R; Lyl-4; receptor-type tyrosine-protein phosphatase C; L-CA; lymphocyte antigen 5; leukocyte common antigen; lymphocyte common antigen; EC 3.1.3.48; Receptor-type tyrosine-protein phosphatase C; Leukocyte common antigen; Lymphocyte antigen 5
Gene ID	19264

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mRNA Refseq	NM_001111316
Protein Refseq	NP_001104786
UniProt ID	P06800
Chromosome Location	1 E4; 1 74.0 cM
Function	hydrolase activity; protein binding; protein kinase binding; protein tyrosine phosphatase activity; phosphatase activity; heparan sulfate proteoglycan binding; heparin binding; phosphoprotein phosphatase activity
PDBrendering based on 1ygr.	