

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

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant mouse PTPRC (592-end) was expressed in E.coli cells using an N-terminal GST tag.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	592-end a.a.
<b>Description</b>	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.
<b>Applications</b>	Phosphatase Assay; Western Blot
<b>Molecular Weight</b>	116 kDa
<b>Expression System</b>	E. coli
<b>Form</b>	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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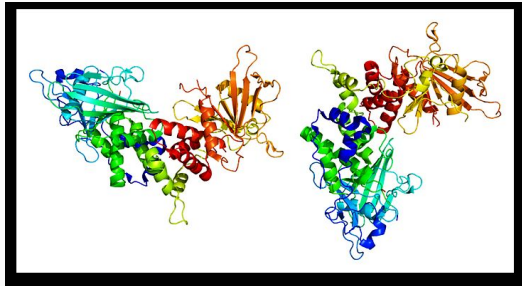
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<b>Specific Activity</b>	9900 nmol/min/mg
<b>Purity</b>	> 80 %
<b>Concentration</b>	0.1 ug/ul
<b>Sequences</b>	592-end
<b>Storage</b>	Store product at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
<b>Pathways</b>	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
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">Ptprc protein tyrosine phosphatase, receptor type, C [ Mus musculus ]</a>
<b>Official Symbol</b>	<a href="#">Ptprc</a>
<b>Synonyms</b>	Ptprc; protein tyrosine phosphatase, receptor type, C; loc; B220; Cd45; Ly-5; T200; CD45R; Lym-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
<b>Gene ID</b>	<a href="#">19264</a>

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

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