

Recombinant Human PTPRC, GST-tagged, Active

Cat. No. PTPRC-468H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PTPRC (193-end) was expressed in <i>E. Coli</i> using an N-terminal GST tag. MW=120 kDa.
Species	Human
Source	E.coli
Protein Length	193-end a.a.
Description	PTPRC (CD45) 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.
Sequence	193-end.
Applications	Kinase Assay, Western Blot.
Storage And Stability	Store product at –70oC. 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.

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22q13.33

1q31-q32

GENE INFORMATION

Gene Name

[PTPRC protein tyrosine phosphatase, receptor type, C \[Homo sapiens \]](#)

Synonyms

PTPRC; protein tyrosine phosphatase, receptor type, C; LCA; LY5; B220; CD45; T200; CD45R; GP180; CD45 antigen; glycoprotein; T200 glycoprotein; leukocyte-common antigen; T200 leukocyte common antigen; protein tyrosine phosphatase, receptor type, c polypeptide; Leukocyte common antigen; L-CA; EC 3.1.3.48; protein tyrosine phosphatase, receptor type, c polypeptide

Gene ID

[5788](#)

mRNA Refseq

[NM_002838](#)

Protein Refseq

[NP_002829](#)

MIM

[151460](#)

UniProt ID

P08575

Pathway

Cell adhesion molecules (CAMs); Fc gamma R-mediated phagocytosis; Primary immunodeficiency; T cell receptor signaling pathway; Axon guidance; :Signaling in Immune system

Function

heparan sulfate proteoglycan binding; heparin binding; hydrolase activit; protein binding; protein kinase binding; transmembrane receptor protein tyrosine phosphatase activity

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PDB rendering based
on 1ygr.



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