

Recombinant Human PTPRJ, GST-tagged

Cat. No. PTPRJ-206H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTPRJ (a.a. 1024-1306) fused with GST-tag at N-terminal, was expressed in an E. coli expression system.
Species	Human
Source	E.coli
ProteinLength	1024-1306 a.a.
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, mitotic cycle, and oncogenic transformation. This PTP possesses an extracellular region containing five fibronectin type III repeats, a single transmembrane region, and a single intracytoplasmic catalytic domain, and thus represents a receptor-type PTP. This protein is present in all hematopoietic lineages, and was shown to negatively regulate T cell receptor signaling possibly through interfering with the phosphorylation of Phospholipase C Gamma 1 and Linker for Activation of T Cells.
Molecular Mass	58.9 kDa
Purity	>95% by SDS-PAGE.
SpecificActivity	268 nmole/min/g Assay conditions: 20 mM HEPES, pH 7.2, 100 mM NaCl, 2 mM EDTA, 1 mM DTT, 50 mM pNPP and DEP1. Assay was done at 30°C for 10 min, and

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	the reaction was monitored at 405 nm continuously. Specific activity was calculated based on $\epsilon_{\text{pNP}} = 18,000 \text{ M}^{-1}\text{cm}^{-1}$
Applications	Useful for the study of enzyme kinetics, regulation, and to dephosphorylate target substrates.
Formulated in	25 mM Tris-HCl, pH 8.0, 75 mM NaCl, 0.05% Tween-20, 50% glycerol, 2 mM EDTA, 1 mM DTT, 10 mM glutathione.
Stability	>12 months at -80°C
OfficialSymbol	PTPRJ

GENE INFORMATION

Gene Name	PTPRJ protein tyrosine phosphatase, receptor type, J [Homo sapiens]
Synonyms	protein tyrosine phosphatase, receptor type, J; DEP1; SCC1; CD148; HPTPeta; R-PTP-ETA; PTPRJ; DEP-1; EC 3.1.3.48; Density-enhanced phosphatase 1;R-PTP-eta; R-PTP-J; HPTP eta;CD148 antigen density-enhanced phosphatase 1; protein-tyrosine phosphatase eta; human density enhanced phosphatase-1 protein-tyrosine phosphatase receptor type J; receptor-type tyrosine-protein phosphatase eta susceptibility to colon cancer 1, mouse, homolog of; protein tyrosine phosphatase, receptor type, J polypeptide
Gene ID	5795
mRNA Refseq	NM_001098503
Protein Refseq	NP_001091973

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MIM	600925
UniProt ID	Q12913
Chromosome Location	11p11.2
Pathway	Adherens junction; PDGFR-beta signaling pathway; Signaling events mediated by Hepatocyte Growth Factor Receptor (c-Met)
Function	beta-catenin binding; protein binding; delta-catenin binding; gamma-catenin binding
PDB rendering based on 2cfv.	