

Recombinant Human PTPRJ

Cat. No. PTPRJ-28068TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to C terminal amino acids 1024-1306 of Human DEP1 containing the catalytic domain and an N terminal proprietary Tag. M.Wt 59 kDa.
Species	Human
Source	E.coli
ProteinLength	1024-1306 a.a.
Description	<p>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. This protein can also dephosphorylate the PDGF beta receptor, and may be involved in UV-induced signal transduction. Multiple transcript variants encoding different isoforms have been found for this gene.</p>
Tissue specificity	Expressed in the promyelocytic cell line HL60, the granulocyte-macrophage colony-stimulating factor-dependent leukemic cell line F-36P, and the interleukin-3 and

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	erythropoietin-dependent leukemic cell line F-36E.
Biological activity	114 U/ug. One unit will hydrolyze 1 nmol p-nitrophenyl phosphate per minute at pH 7.4 and 30C. Assay buffer: 50 mM HEPES, pH 7.4, 2 mM EDTA, 3mM DTT, 100 mM NaCl, 50 mM Pnpp, and 0.5 ug/ml enzyme.
Form	Liquid
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 50% Glycerol, 0.05% Tween 20, 75mM Sodium chloride, 25mM Tris HCl, 2mM EDTA, 10mM Glutathione, 1mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein-tyrosine phosphatase family. Receptor class 3 subfamily. Contains 9 fibronectin type-III domains. Contains 1 tyrosine-protein phosphatase domain.

GENE INFORMATION

Gene Name	PTPRJ protein tyrosine phosphatase, receptor type, J [Homo sapiens]
Official Symbol	PTPRJ
Synonyms	PTPRJ; protein tyrosine phosphatase, receptor type, J; receptor-type tyrosine-protein phosphatase eta; CD148; DEP1; HPTPeta;
Gene ID	5795
mRNA Refseq	NM_001098503

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Protein Refseq	NP_001091973
MIM	600925
Uniprot ID	Q12913
Chromosome Location	11p11.2
Pathway	Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; PDGFR-beta signaling pathway, organism-specific biosystem; Signaling events mediated by Hepatocyte Growth Factor Receptor (c-Met), organism-specific biosystem; T Cell Receptor Signaling Pathway, organism-specific biosystem;
Function	beta-catenin binding; delta-catenin binding; gamma-catenin binding; hydrolase activity; mitogen-activated protein kinase binding;

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