Recombinant Human Protein Tyrosine Phosphatase, Receptor Type, J

Cat. No. PTPRJ-205H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human DEP-1 is expressed in*E. coli*. It contains the catalytic domain of DEP-1 (residues 1024-1306) and has a molecular weight of 32.9 kDa.
Species	Human
Source	E.coli
ProteinLength	1024-1306 a.a.
Description	DEP-1 (density-enhanced phosphatase-1), also known as PTP-eta or CD148, is a representative of a unique subfamily of receptor protein tyrosine phosphatases with fibronectin type III-like repeats in the extracellular domain and only one catalytic domain. It is expressed in hematopoietic cells, fibroblasts, and endothelial cells. It has been shown to dephosphorylate PDGF. Human DEP-1 is a receptor protein tyrosine phosphatase containing 1445 amino acids.
Purity	Greater than 95% as determined by Coomassie-stained SDS-PAGE gel.
Form	25 mM Tris-HCl (pH 8.0), 75 mM NaCl, 0.05% Tween-20, 2 mM EDTA, 1 mM DTT and 50% glycerol. Liquid at -20°C.
Applications	Removal of phosphates from target substrates. Useful for the study of enzyme kinetics, regulation and for inhibitors screening.

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Specific Activity	204 U/μg. One unit will hydrolyze 1 nmol of p-nitrophenyl phosphate per minute at pH 7.4 and 30°C. Assay buffer: 50 mM HEPES (pH 7.4), 2 mM EDTA, 3 mM DTT, 100 mM NaCl and 50 mM pNPP.
Stability	6 months at -20°C.

GENE INFORMATION

Gene Name	PTPRJ protein tyrosine phosphatase, receptor type, J [Homo sapiens]
Synonyms	PTPRJ; protein tyrosine phosphatase, receptor type, J; DEP1; SCC1; CD148; HPTPeta; R-PTP-ETA; receptor-type tyrosine-protein phosphatase eta; DEP-1; 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; susceptibility to colon cancer 1, mouse, homolog of; protein tyrosine phosphatase, receptor type, J polypeptide; EC 3.1.3.48
Gene ID	5795
mRNA Refseq	NM_001098503
Protein Refseq	NP_001091973
MIM	600925
UniProt ID	Q12913
Chromosome Location	11p11.2
Pathway	Adherens junction

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Function	hydrolase activity; protein binding; transmembrane receptor protein tyrosine phosphatase activity
PDB rendering based on 2cfv.	

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