

Recombinant Human PTPRS

Cat. No. PTPRS-31118TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 883/1210 of Human PTPRS, was expressed in E coli using an N-terminal tag, MW 63 kDa.
Species	Human
Source	E.coli
ProteinLength	883-1210 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 contains an extracellular region, a single transmembrane segment and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region of this protein is composed of multiple Ig-like and fibronectin type III-like domains. Studies of the similar gene in mice suggested that this PTP may be involved in cell-cell interaction, primary axonogenesis, and axon guidance during embryogenesis. This PTP has been also implicated in the molecular control of adult nerve repair. Four alternatively spliced transcript variants, which encode distinct proteins, have been reported.
Tissue specificity	Detected in all tissues tested except for placenta and liver.
Form	Liquid

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Storage buffer	Preservative: None Constituents: 30% Glycerol, 50mM Sodium chloride, 20mM MOPS, 0.25mM DTT, 0.1mM PMSF, pH 7.5
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequence Similarities	Belongs to the protein-tyrosine phosphatase family. Receptor class 2A subfamily. Contains 8 fibronectin type-III domains. Contains 3 Ig-like C2-type (immunoglobulin-like) domains. Contains 2 tyrosine-protein phosphatase domains.

GENE INFORMATION

Gene Name	PTPRS protein tyrosine phosphatase, receptor type, S [Homo sapiens]
Official Symbol	PTPRS
Synonyms	PTPRS; protein tyrosine phosphatase, receptor type, S; receptor-type tyrosine-protein phosphatase S;
Gene ID	5802
mRNA Refseq	NM_002850
Protein Refseq	NP_002841
MIM	601576
Uniprot ID	Q13332
Chromosome Location	19p13.3

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Function

hydrolase activity; protein binding; receptor activity; transmembrane receptor protein
tyrosine phosphatase activity;

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