Recombinant Human PTPRS

Cat. No. PTPRS-31119TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 883-1501 of Human PTPRS with an N terminal proprietary tag, MWt 98 kDa.
Species	Human
Source	E.coli
ProteinLength	883-1501 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.
Biological activity	Specific Activity: 223.2 pmol/min/mg.The specific activity of PTPRS was determined using pNPP.Enzyme reaction condition: 20 mM pNPP, 2 min incubation at 30°C, 1 ug

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	enzyme.Assay buffer: 50 mM HEPES, pH 7.4, 2 mM EDTA, 3 mM DTT, 100 mM NaCl,50 mM pNPP.
Form	Liquid
Storage buffer	Preservative: NoneConstituents: 20% Glycerol, 0.05% Tween 20, 3mM DTT, 25mM Tris HCl, 100mM Sodium chloride, pH 8.0
Storage	Store at -80°C
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

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Uniprot ID	Q13332
Chromosome Location	19p13.3
Function	hydrolase activity; protein binding; receptor activity; transmembrane receptor protein tyrosine phosphatase activity;

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