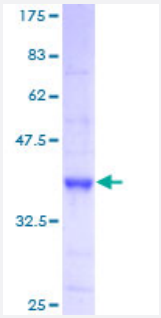
Full-Length

PTPRS (Human) Recombinant Protein (P01)

Catalog # H00005802-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PTPRS full-length ORF (AAH29496, 31 a.a. - 128 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	EPPRFIKEPKDQIGVSGGVASFVCQATGDPKPRVTWNKKGKKVNSQRFETIEFDESAGAVLRIQP LRTPRDENVYECVAQNSVGEITVHAKLTVLRGP
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.52
Interspecies Antigen Sequence	Mouse (96)
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PTPRS

Entrez GeneID	5802
GeneBank Accession#	BC029496
Protein Accession#	AAH29496
Gene Name	PTPRS
Gene Alias	PTPSIGMA
Gene Description	protein tyrosine phosphatase, receptor type, S
Omim ID	601576
Gene Ontology	Hyperlink
Gene Summary	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 c ell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains an extra cellular region, a single transmembrane segment and two tandem intracytoplasmic catalytic doma ins, 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 suggest ed that this PTP may be involved in cell-cell interaction, primary axonogenesis, and axon guidanc e during embryogenesis. This PTP has been also implicated in the molecular control of adult nerv e repair. Four alternatively spliced transcript variants, which encode distinct proteins, have been r eported. [provided by RefSeq
Other Designations	protein tyrosine phosphatase PTPsigma|protein tyrosine phosphatase, receptor type, sigma

Disease

- Cell Transformation
- Colorectal Neoplasms
- Diabetes Mellitus
- Microsatellite Instability