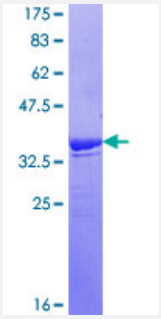
PTPN7 (Human) Recombinant Protein (Q01)

Catalog # H00005778-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PTPN7 partial ORF (NP_542155.1, 107 a.a. - 209 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	REVTLHFLRTAGHPLTRWALQRQPPSPKQLEEEFLKIPSNFVSPEDLDIPGHASKDRYKTILPNPQ SRVCLGRAQSQEDGDYINANYIRGYDGKEKVYIATQG
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.07
Interspecies Antigen Sequence	Mouse (96); Rat (95)
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 — PTPN7

Entrez GeneID	5778
GeneBank Accession#	NM_080588
Protein Accession#	NP_542155.1
Gene Name	PTPN7
Gene Alias	BPTP-4, HEPTP, LC-PTP, LPTP, PTPNI
Gene Description	protein tyrosine phosphatase, non-receptor type 7
Omim ID	176889
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 gene is preferentially e xpressed in a variety of hematopoietic cells, and is an early response gene in lymphokine stimulat ed cells. The noncatalytic N-terminus of this PTP can interact with MAP kinases and suppress the MAP kinase activities. This PTP was shown to be involved in the regulation of T cell antigen recep tor (TCR) signaling, which was thought to function through dephosphorylating the molecules relate d to MAP kinase pathway. Two alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq
Other Designations	OTTHUMP00000034115|dual specificity phosphatase 1|hematopoietic protein-tyrosine phosphat ase|protein-tyrosine phoshatase, nonreceptor-type, stress induced

Pathway

- MAPK signaling pathway