

Recombinant Human PTPN1, GST-tagged, Active

Cat. No. PTPN1-460H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human PTPN1 was expressed by <i>baculovirus</i> in <i>Sf9 insect cell</i> using a N-terminal GST tag. MW = 71 kDa.
Species	Human
Source	Sf9 Cells
Description	Protein tyrosine phosphatase nonreceptor, type 1 (PTPN1) is the founding member of the protein tyrosine phosphatase (PTP) family. PTPN1 catalyze the hydrolysis of the phosphate monoesters specifically from tyrosine residues. PTPN1 is known to be involved in signaling pathways that regulate a variety of cellular processes including cell growth and oncogenic transformation. PTPN1 also has been shown to act as a negative regulator of insulin signaling. PTPN1 has also been reported to dephosphorylate epidermal growth factor receptor kinase, which implicated the role of this phosphatase in cell growth control and cell response to interferon stimulation.
Sequence	Full length.
Applications	Phosphatase Assay, Western Blot.
Storage And Stability	Store product at -70°C . For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.
Full Length	Full L.

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GENE INFORMATION

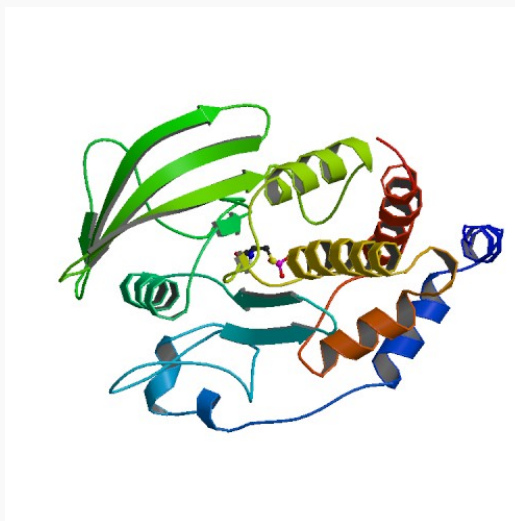
Gene Name	PTPN1 protein tyrosine phosphatase, non-receptor type 1 [Homo sapiens]
Synonyms	PTPN1; protein tyrosine phosphatase, non-receptor type 1; Tyrosine-protein phosphatase non-receptor type 1; EC 3.1.3.48; Protein-tyrosine phosphatase 1B; PTP-1B; PTP1B; OTTHUMP00000031266; protein tyrosine phosphatase 1B; Protein-tyrosine phosphatase 1B; protein tyrosine phosphatase, placental
Gene ID	5770
mRNA Refseq	NM_002827
Protein Refseq	NP_002818
MIM	176885
UniProt ID	P18031
Chromosome Location	20q13.1-q13.2
Pathway	Adherens junction; Insulin signaling pathway; Hemostasis; Integrin cell surface interactions
Function	hydrolase activity; insulin receptor binding; protein binding; protein tyrosine phosphatase activity; zinc ion binding

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on 1a5y.



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