

## Recombinant Human PTPN1, GST-tagged, Active

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant full length human PTPN1 was expressed by <i>baculovirus Sf9 insect cell</i> using a N-terminal GST tag. MW = 71 kDa.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>Description</b>	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.
<b>Sequence</b>	Full length.
<b>Applications</b>	Phosphatase Assay, Western Blot.
<b>Storage And Stability</b>	Store product at $-70^{\circ}\text{C}$ . 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.
<b>Full Length</b>	Full L.

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## GENE INFORMATION

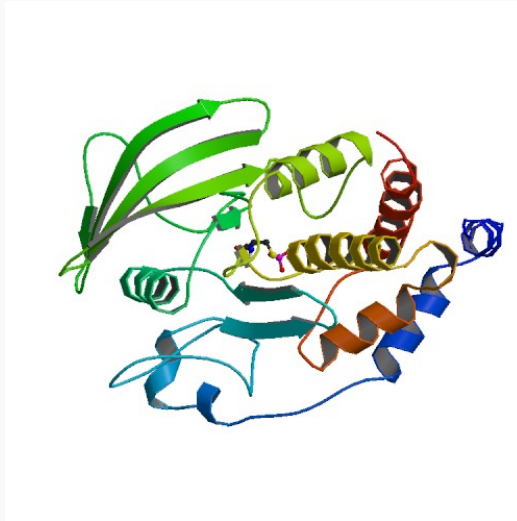
<b>Gene Name</b>	PTPN1 protein tyrosine phosphatase, non-receptor type 1 [ Homo sapiens ]
<b>Synonyms</b>	PTPN1; protein tyrosine phosphatase, non-receptor type 1; Tyrosine-protein phosphatase non-receptor type 1; EC 3.1.3.48; Protein-tyrosine phosphatase 1B; PTP-1B; PTP1B; OTTHUMP00000031266; protein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

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