

Active Recombinant Full Length Human PTPN6 Protein, GST-tagged

Cat. No. PTPN6-1520H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length human PTPN6 was expressed in E.coli cells using an N-terminal GST tag.
Species	Human
Source	E.coli
ProteinLength	1-595 a.a.
Description	PTPN6 gene is preferentially expressed in a variety of hematopoietic cells, and is an early response gene in lymphokine stimulated cells. The noncatalytic N-terminus of this PTP can interact with MAP kinases and negatively regulates ERK2 and p38 MAP-kinases activity. The PTPN6 was shown to be involved in the regulation of T cell antigen receptor (TCR) signaling, which was thought to function through dephosphorylating the molecules related to MAP kinase pathway.
Form	Recombinant protein stored in 20 mM MOPS, pH 7.5, 50 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 30% glycerol.
Bio-activity	965 nmol/min/mg
Molecular Mass	~93 kDa
Purity	>90%

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Applications	Phosphatase Assay, Western Blot
Storage	Store at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
Concentration	0.1µg/µl
GENE INFORMATION	
Gene Name	PTPN6 protein tyrosine phosphatase, non-receptor type 6 [Homo sapiens]
Official Symbol	PTPN6
Synonyms	PTPN6; protein tyrosine phosphatase, non-receptor type 6; tyrosine-protein phosphatase non-receptor type 6; HCP; HCPH; PTP 1C; SHP 1; SHP1; hematopoietic cell phosphatase; protein-tyrosine phosphatase 1C; protein-tyrosine phosphatase SHP-1; hematopoietic cell protein-tyrosine phosphatase; SHP-1; HPTP1C; PTP-1C; SHP-1L; SH-PTP1;
Gene ID	5777
mRNA Refseq	NM_002831
Protein Refseq	NP_002822
MIM	176883
UniProt ID	P29350
Chromosome Location	12p13.31

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Pathway

Adaptive Immune System, organism-specific biosystem; Adherens junction, organism-specific biosystem; Adherens junction, conserved biosystem; B Cell Receptor Signaling Pathway, organism-specific biosystem; B cell receptor signaling pathway, organism-specific biosystem; B cell receptor signaling pathway, conserved biosystem; BCR signaling pathway, organism-specific biosystem;

Function

hydrolase activity; protein binding; protein kinase binding; protein tyrosine phosphatase activity; transmembrane receptor protein tyrosine phosphatase activity;

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