

# Active Recombinant Full Length Human PTPN6 Protein, GST-tagged

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant full length human PTPN6 was expressed in E.coli cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-595 a.a.
<b>Description</b>	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.
<b>Form</b>	Recombinant protein stored in 20 mM MOPS, pH 7.5, 50 mM NaCl, 0.25 mM DTT, 0.1 mM PMSF, 30% glycerol.
<b>Bio-activity</b>	965 nmol/min/mg
<b>Molecular Mass</b>	~93 kDa
<b>Purity</b>	>90%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Applications</b>	Phosphatase Assay, Western Blot
<b>Storage</b>	Store at -70°C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. Avoid freeze/thaw cycles.
<b>Concentration</b>	0.1 µg/µl
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	PTPN6 protein tyrosine phosphatase, non-receptor type 6 [ Homo sapiens ]
<b>Official Symbol</b>	PTPN6
<b>Synonyms</b>	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;
<b>Gene ID</b>	<a href="#">5777</a>
<b>mRNA Refseq</b>	<a href="#">NM_002831</a>
<b>Protein Refseq</b>	<a href="#">NP_002822</a>
<b>MIM</b>	<a href="#">176883</a>
<b>UniProt ID</b>	<a href="#">P29350</a>
<b>Chromosome Location</b>	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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