Recombinant Full Length Human PTPN6 Protein, C-Flag-tagged

Cat. No. PTPN6-1360HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PTPN6 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
Description	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 cell growth, differentiation, mitotic cycle, and oncogenic transformation. N-terminal part of this PTP contains two tandem Src homolog (SH2) domains, which act as protein phospho-tyrosine binding domains, and mediate the interaction of this PTP with its substrates. This PTP is expressed primarily in hematopoietic cells, and functions as an important regulator of multiple signaling pathways in hematopoietic cells. This PTP has been shown to interact with, and dephosphorylate a wide spectrum of phospho-proteins involved in hematopoietic cell signaling. Multiple alternatively spliced variants of this gene, which encode distinct isoforms, have been reported.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	67.5 kDa
AA Sequence	MLSRGWFHRDLSGLDAETLLKGRGVHGSFLARPSRKNQGDFSLSVRVGDQVTHIRI

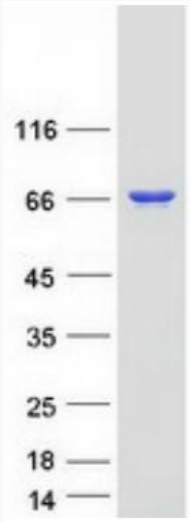
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	QNSGDFYDLYGGEK FATLTELVEYYTQQQGVLQDRDGTIIHLKYPLNCSDPTSERW YHGHMSGGQAETLLQAKGEPWTFLVRES LSQPGDFVLSVLSDQPKAGPGSPLRVT HIKVMCEGGRYTVGGLETFDSLTDLVEHFKKTGIEEASGAFVY LRQPYYATRVNAA DIENRVLELNKKQESEDTAKAGFWEEFESLQKQEVKNLHQRLEGQRPENKGKNRY KN ILPFDHSRVILQGRDSNIPGSDYINANYIKNQLLGPDENAKTYIASQGCLEATVND FWQMAWQENSRVIV MTTREVEKGRNKCVPYWPEVGMQRAYGPYSVTNCGEHDT TEYKLRTLQVSPLDNGDLIREIWHYQYLSWP DHGVPSEPGGVLSFLDQINQRQESL PHAGPIIVHCSAGIGRTGTIIVIDMLMENISTKGLDCDIDIQKTI QMVRAQRSGMVQTE AQYKFIYVAIAQFIETTKKKLEVLQSQKGQESEYGNITYPPAMKNAHAKASRTSSK HKEDVYENLHTKNKREEKVKKQRSADKEKSKGSLKRKTRTRPLEQKLISEEDLAAND ILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Phosphatase, Stem cell - Pluripotency
Protein Pathways	Adherens junction, B cell receptor signaling pathway, Jak-STAT signaling pathway, Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway
Full Length	Full L.

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GENE INFORMATION

Gene Name	PTPN6 protein tyrosine phosphatase non-receptor type 6 [Homo sapiens (human)]
Official Symbol	PTPN6
Synonyms	HCP; HCPH; SHP1; SHP-1; HPTP1C; PTP-1C; SHP-1L; SH-PTP1
Gene ID	5777
mRNA Refseq	NM_080548.5
Protein Refseq	NP_536858.1
MIM	176883
UniProt ID	P29350



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Coomassie blue staining of purified PTPN6 protein.

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