

Recombinant Human PTPN6 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PTPN6-2576H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PTPN6 MS Standard C13 and N15-labeled recombinant protein (NP_002822) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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.
Molecular Mass	67.4 kDa
AA Sequence	MVRWFHRDLSGLDAETLLKGRGVHGSFLARPSRKNQGDFSLSVRVGDQVTHIRIQN SGDFYDLYGGEKFATLTEVEYYTQQQGVQLQDRDGTIIHLKYPLNCSDPTSERWYH

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GHMSGGQAETLLQAKGEPWTFVLVRESLSQPGDFVLSVLSDQPKAGPGSPLRVTHIK
 VMCEGGRYTVGGLETDFSLTDLVEHFKKTGIEEASGAFVYLRQPPYATRNVNAADIEN
 RVLELNKKQESED TAKAGFWE EFESLQKQEVKNLHQRLEGQRPENKGKNRYKNILP
 FDHSRVILQGRDSNIPGSDYINANYIKNQLLGPDENAKTYIASQGCLEATVNDFWQM
 AWQENSRVIVMTTREV EKGGRNKCVPYWPEVGMQRAYGPYSVTNCGEHD TTEYKL
 RTLQVSPLDNGDLIREIWHYQYLSWPDHGV PSEPGGVLSFLDQINQRQESLPHAGPI
 IVHCSAGIGRTGTIIVIDMLMENISTKGLDCDIDIQKTIQMVRAQRSGMVQTEAQYKFIY
 VAIAQFIETTKKKLEVLQSQKGQESEYGNITYPPAMKNAHAKASRTSSKHKEDVYEN
 LHTKNKREEKVKKQRSADKEKSKGSLKRKTRTRPLEQKLISEEDLAANDILDYKDDD
 DKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name PTPN6 protein tyrosine phosphatase non-receptor type 6 [Homo sapiens (human)]

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

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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

SDS-PAGE



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