

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

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

## SPECIFICATION

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

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GHMSGGQAETLLQAKGEPWTFVLVRESLSQPGDFVLSVLSQPKAGPGSPLRVTHIK  
 VMCEGGRYTVGGLETFDLTDLVEHFKKTGIEEASGAFVYLRQPPYATRVNAADIEN  
 RVLELNKKQESED TAKAGFWE EFESLQKQEVKNLHQRLEGQRPENKGKNRYKNILP  
 FDHSRVILQGRDSNIPGSDYINANYIKNQLLGPDENAKTYIASQGCLEATVNDFWQM  
 AWQENSRVIVMTTREV EKGGRNKCVPYWPEVGMQRAYGPYSVTNCGEHD TTEYKL  
 RTLQVSPLDNGDLIREIWHYQYLSWPDHGV PSEPGGVLSFLDQINQRQESLPHAGPI  
 IVHCSAGIGRTGTIIVIDMLMENISTKGLDCDIDIQKTIQMVRAQRSGMVQTEAQYKFIY  
 VAIAQFIETTKKKLEVLQSQKGQSEYGNITYPPAMKNAHAKASRTSSKHKEDVYEN  
 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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