

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

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
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| <b>Product Overview</b> | Recombinant Full Length Human PTPN6 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Source</b>           | Mammalian Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <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>Form</b>             | 25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | 67.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>AA Sequence</b>      | MLSRGWFHRDLSGLDAETLLKGRGVHGSFLARPSRKNQGDFSLSVRVGDQVTHIRI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

 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

QNSGDFYDLYGGEK FATLTELVEYYTQQQGV LQDRDGTIIHLKYPLNCSDPTSERW  
 YHGHMSGGQAETLLQAKGEPWTFVLVRES LSQPGDFVLSVLS DQPKAGPGSPLRVT  
 HIKVMCEGGRYTVGGLETFD SLTDLVEHFKKTGIEEASGAFVY LRQPYATRVNAA  
 DIENRVLELNKKQESED TAKAGFWEFE SLQKQEVKNLHQRLEGQRPENKGNRY  
 KN ILPFDHSRVILQGRDSNIPGSDYINANYIKNQLLGPDENAKTYIASQGCLEATVND  
 FWQMAWQENSRVIV MTTREVEKGRNKCVPYWPEVGMQRAYGPYSVTNCGEHDT  
 TEYKLRTLQVSPLDNGDLIREIWHYQYLSWP DHGVPSEPGGVLSFLDQINQRQESL  
 PHAGPIIVHCSAGIGRTGTIIVIDMLMENISTKGLDCDIDIQKTI QMVRAQRSGMVQTE  
 AQYKFIYVAIAQFIETTKKKLEVLQSQKGQESEYGNITYPPAMKNAHAKASRTSSK  
 HKEDVYENLHTKNKREEKVKKQRSADKEKSKGSLKRKTRTRPLEQKLISEEDLAAND  
 ILDYKDDDDKV

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

## 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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