

Recombinant Human PTPN2 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PTPN2-2375H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PTPN2 MS Standard C13 and N15-labeled recombinant protein (NP_536348) 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. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. Epidermal growth factor receptor and the adaptor protein Shc were reported to be substrates of this PTP, which suggested the roles in growth factor mediated cell signaling. Multiple alternatively spliced transcript variants encoding different isoforms have been found. Two highly related but distinctly processed pseudogenes that localize to chromosomes 1 and 13, respectively, have been reported.
Molecular Mass	41 kDa
AA Sequence	MPTTIEREFEELDTQRRWQPLYLEIRNESHDPYHRVAKFPENRRNRNRYRDVSPYDH SRVKLQNAENDYINASLVDIEEAQRSYILTQGPLPNTCCHFWMVWQQKTKAVVML NRIVEKESVKCAQYWPTDDQEMLFKETGFSVKLLSEVDKSYTIVHLLQLENINSGET

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RTISHFHYTTWPDFGVPEPASFLNFLFKVRESGSLNPDHGPAVIHCSAGIGRSGTF
SLVDTCLVLMEKGDDINIKQVLLNMRKYRMGLIQTPDQLRFSYMAIIEGAKCIKGDSSI
QKRWKELSKEDLSPAFDHSPNKIMTEKYNGNRIGLEEEKLTGDRCTGLSSKMQDTM
EENSERPRLTDTTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 PTPN2 protein tyrosine phosphatase non-receptor type 2 [Homo sapiens (human)]

Official Symbol PTPN2

Synonyms PTPN2; protein tyrosine phosphatase, non-receptor type 2; PTPT; tyrosine-protein phosphatase non-receptor type 2; TC PTP; TCELLPTP; TCPTP; T-cell protein tyrosine phosphatase; PTN2; TC-PTP;

Gene ID 5771

mRNA Refseq NM_080423

Protein Refseq NP_536348

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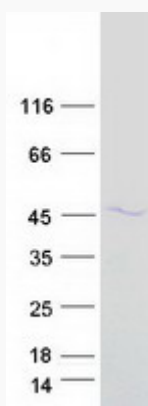
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MIM 176887

UniProt ID P17706

SDS-PAGE



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