

Product datasheet for PH305090

TCPTP (PTPN2) (NM_080423) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PTPN2 MS Standard C13 and N15-labeled recombinant protein (NP_536348)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC205090
Predicted MW:	41 kDa
Protein Sequence:	>RC205090 protein sequence Red=Cloning site Green=Tags(s)
	MPTTIEREFEELDTQRRWQPLYLEIRNESHDYPHRVAKFPENRRNRRYRDVSPYDHSRVKQLQNAENDYIN ASLVDIEEAQRSYILTQGPLPNTCCHFWMVWQQTAKAVMLNRIVEKESVKCAQYWPTDDQEMLFKETG FSVKLLSEDEVKSYTVHLLQLENINSGETRTISHFYTTWPDFGVPEPASFLNLFKVRRESGLNPDHG PAVIHCSAGIGRSGTFLVDTCLVLEMEKGGDINIKQVLLNMRKYMGLIQTPDQLRFSYMAIIEGAKCIK GDSSIQKRWKEKSKEDLSPAFDHSPNKIMTEKYNGNRIGLEEEKLTGDRCTGLSSKMQDTMEENSERPRL TDT
	TRTRPLEQKLI SEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_536348
RefSeq Size:	1619
RefSeq ORF:	1059
Synonyms:	PTN2; PTPT; TC-PTP; TCELLPTP; TCPTP
Locus ID:	5771



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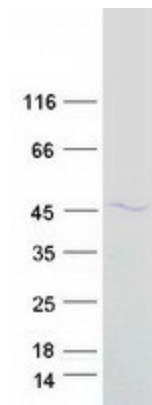
UniProt ID: [P17706](#), [Q96AU5](#)

Cytogenetics: 18p11.21

Summary: 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. [provided by RefSeq, May 2011]

Protein Families: Druggable Genome, Phosphatase, Transmembrane

Product images:



Coomassie blue staining of purified PTPN2 protein (Cat# [TP305090]). The protein was produced from HEK293T cells transfected with PTPN2 cDNA clone (Cat# [RC205090]) using MegaTran 2.0 (Cat# [TT210002]).