

Product datasheet for **TP313896L**

SHP1 (PTPN6) (NM_002831) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human protein tyrosine phosphatase, non-receptor type 6 (PTPN6), transcript variant 1, 1 mg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC213896 representing NM_002831 Red =Cloning site Green =Tags(s)

MVRWFHRDLSGLDAETLLKGRGVHGSFLARPSRKNQGFSLSVRVGDQVTHIRIQNSGDFYDLYGGEKFA
TLTELVEYYTQQQGVLDQRDGTIIHLKYPLNCSDPYSERWYHGHMSGGQAETLLQAKGEPWTFVRESLS
QPGDFVLSVLSQPKAGPGSPLRVTHIKVMCEGGRYTVGGLETDFSLDLDVEHFKKTGIEEASGAFVYLR
QPYYATRVAADIENRVLELNKKQESEDYAKAGFWEEFESLQKQEVKNLHQRLEGQRPENKGNRYKNIL
PFDHSRVILQGRDSNIPGSDYINANYIKNQLLGPDENAKTYIASQGCLEATVNDFWQMAWQENSRVIVMT
TREVKGRNKCVPYWPEVGMQRAYGPYSVTNCGEHDTEYKLRTLQVSPLDNGDLIREIWHYQYLSWPDH
GVPSEPGVLSFLDQINQRQESLPHAGPIVHCSAGIGRTGTIIVIDMLMENISTKGLDCDIDIQKTIQM
VRAQRSGMVQTEAQYKFIYVAIAQFIETTKKKLEVLQSQKQGESEYGNITYPPAMKNAHAKASRTSSKHK
EDVYENLHTKNKREEKVKKQRSADKEKSKGSLKRK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

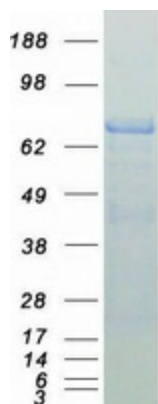
Tag:	C-Myc/DDK
Predicted MW:	67.4 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_002822
Locus ID:	5777
UniProt ID:	P29350
RefSeq Size:	2253
Cytogenetics:	12p13.31
RefSeq ORF:	1785
Synonyms:	HCP; HCPH; HPTP1C; PTP-1C; SH-PTP1; SHP-1; SHP-1L; SHP1
Summary:	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. [provided by RefSeq, Jul 2008]
Protein Families:	Druggable Genome, Phosphatase, Stem cell - Pluripotency
Protein Pathways:	Adherens junction, B cell receptor signaling pathway, Jak-STAT signaling pathway, Natural killer cell mediated cytotoxicity, T cell receptor signaling pathway

Product images:



Coomassie blue staining of purified PTPN6 protein (Cat# [TP313896]). The protein was produced from HEK293T cells transfected with PTPN6 cDNA clone (Cat# [RC213896]) using MegaTran 2.0 (Cat# [TT210002]).