

## Product datasheet for **TP313896M**

### **SHP1 (PTPN6) (NM\_002831) Human Recombinant Protein**

#### **Product data:**

<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant protein of human protein tyrosine phosphatase, non-receptor type 6 (PTPN6), transcript variant 1, 100 µg
<b>Species:</b>	Human
<b>Expression Host:</b>	HEK293T
<b>Expression cDNA Clone or AA Sequence:</b>	>RC213896 representing NM_002831 <b>Red</b> =Cloning site <b>Green</b> =Tags(s)

MVRWFHRDLSGLDAETLLKGRGVHGSFLARPSRKNQGFSLSVRVGDQVTHIRIQNSGDFYDLYGGEKFA  
TLTELVEYYTQQQGVLDQRDGTIIHLKYPLNCSDPYSERWYHGHMSGGQAETLLQAKGEPWTFVRESLS  
QPGDFVLSVLSQPKAGPGSPLRVTHIKVMCEGGRYTVGGLETDFSLDLDVEHFKKTGIEEASGAFVYLR  
QPYYATRVAADIENRVLELNKKQESED TAKAGFWEEFESLQKQEVKNLHQRLEGQRPENKGNRYKNIL  
PFDHSRVILQGRDSNIPGSDYINANYIKNQLLGPDENAKTYIASQGCLEATVNDFWQMAWQENSRVIVMT  
TREVKGRNKCVPYWPEVGMQRAYGPYSVTNCGEHD TTEYKLR TLQV SPLDNGDLIREIWHYQYLSWPDH  
GVPSEPGGVSFLDQINQRQESLPHAGPIIVHCSAGIGRTGTIIVIDMLMENISTKGLDCDIDIQKTIQM  
VRAQRSGMVQTEAQYKFIYVAIAQFIETTKKKLEVLQSQKQGESEYGNITYPPAMKNAHAKASRTSSKHK  
EDVYENLHTKNKREEKVKKQRSADKEKSKGSLKRK

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

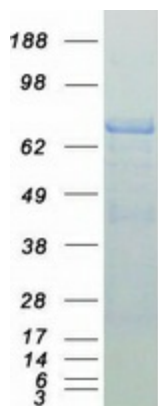
<b>Tag:</b>	C-Myc/DDK
<b>Predicted MW:</b>	67.4 kDa
<b>Concentration:</b>	>0.05 µg/µL as determined by microplate BCA method
<b>Purity:</b>	> 80% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
<b>Preparation:</b>	Recombinant protein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



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<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>RefSeq:</b>	<a href="#">NP_002822</a>
<b>Locus ID:</b>	5777
<b>UniProt ID:</b>	<a href="#">P29350</a>
<b>RefSeq Size:</b>	2253
<b>Cytogenetics:</b>	12p13.31
<b>RefSeq ORF:</b>	1785
<b>Synonyms:</b>	HCP; HCPH; HPTP1C; PTP-1C; SH-PTP1; SHP-1; SHP-1L; SHP1
<b>Summary:</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. [provided by RefSeq, Jul 2008]
<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

### 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]).