

## Product datasheet for **TP720146L**

### **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
<b>Species:</b>	Human
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	Lys243-Ile541
<b>Tag:</b>	C-His
<b>Predicted MW:</b>	35.4 kDa
<b>Concentration:</b>	lot specific
<b>Purity:</b>	>95% as determined by SDS-PAGE and Coomassie blue staining
<b>Buffer:</b>	Provided lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl
<b>Endotoxin:</b>	< 0.1 EU per µg protein as determined by LAL test
<b>Storage:</b>	Store at -80°C.
<b>Stability:</b>	Stable for at least 3 months from date of receipt under proper storage and handling conditions.
<b>RefSeq:</b>	<a href="#">NP_002822</a>
<b>Locus ID:</b>	5777
<b>UniProt ID:</b>	<a href="#">P29350</a>
<b>Cytogenetics:</b>	12p13.31
<b>Synonyms:</b>	HCP; HCPH; HPTP1C; PTP-1C; SH-PTP1; SHP-1; SHP-1L; SHP1



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**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:**