

## Product datasheet for **AM09320PU-N**

### **SHP1 (PTPN6) Mouse Monoclonal Antibody [Clone ID: PTY15]**

#### **Product data:**

Product Type:	Primary Antibodies
Clone Name:	PTY15
Applications:	ELISA, IF, IHC, WB
Recommended Dilution:	<b>ELISA.</b> <b>Western Blot.</b> <b>Immunocytochemistry.</b>
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant protein corresponding to full-length PTP1-C
Specificity:	This antibody recognizes single 67kDa PTP1-C in Human cells that express the enzyme and the SH2(C) domain
Formulation:	0.01M PBS, pH 7.2 without preservatives State: Purified State: Lyophilized purified IgG fraction
Reconstitution Method:	Restore with Double distilled water to adjust the final concentration to 1.0 mg/ml.
Purification:	Affinity Chromatography on Protein G
Conjugation:	Unconjugated
Storage:	Upon receipt, store (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	protein tyrosine phosphatase, non-receptor type 6
Database Link:	<a href="#">Entrez Gene 5777 Human P29350</a>



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<b>Background:</b>	The phosphorylation state of receptors and signal transduction molecules influences almost every cell activities. The phosphorylation rate is regulated by kinases which add phosphate group and by phosphatases which remove phosphate group from the amino acid residues on protein molecules. Protein tyrosine phosphatase 1 C (PTP1C) is a tyrosine phosphatase highly expressed in hematopoietic cells. PTP1C was found to co-precipitate with B lymphocyte-specific cell surface glycoprotein CD22, after anti-immunoglobulin stimulation. Study with PTP1C deficient mice showed that the phosphatase may implicate with negative selection in B cell immunity.
<b>Synonyms:</b>	PTPN-6, HCP, PTP1C, Protein-tyrosine phosphatase 1C, PTP-1C, SH-PTP1, Protein-tyrosine phosphatase SHP-1
<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