

# Datasheet for ABIN7602271

## anti-SHP1 antibody (AA 67-572)



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Quantity:	100 μg	
Target:	SHP1 (PTPN6)	
Binding Specificity:	AA 67-572	
Reactivity:	Human, Mouse	
Host:	Rabbit	
Clonality:	Polyclonal	
Conjugate:	This SHP1 antibody is un-conjugated	
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC)	

### **Product Details**

Purpose:	Anti-SHP1/PTPN6 Antibody Picoband®	
Immunogen:	E.coli-derived human SHP1/PTPN6 recombinant protein (Position: E67-K572).	
Isotype:	IgG	
Cross-Reactivity (Details):	No cross-reactivity with other proteins.	
Characteristics:	Anti-SHP1/PTPN6 Antibody Picoband® (ABIN7602271). Tested in ELISA, Flow Cytometry, IF, ICC, WB applications. This antibody reacts with Human, Mouse. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.	
Purification:	Immunogen affinity purified.	

### **Target Details**

Target:	SHP1 (PTPN6)		
Alternative Name:	PTPN6 (PTPN6 Products)		
Background:	Synonyms: Tafazzin, Protein G4.5, TAZ, EFE2, G4.5		
	Tissue Specificity: High levels in cardiac and skeletal muscle. Up to 10 isoforms can be present		
	in different amounts in different tissues. Most isoforms are ubiquitous. Isoforms that lack the		
	N-terminus are found in leukocytes and fibroblasts, but not in heart and skeletal muscle. Some		
	forms appear restricted to cardiac and skeletal muscle or to leukocytes.		
	Background: Tyrosine-protein phosphatase non-receptor type 6, also known as Src homology		
	region 2 domain-containing phosphatase-1 (SHP-1), is an enzyme that in humans is encoded by		
	the PTPN6 gene. 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 PTF		
	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.		
Molecular Weight:	68 kDa		
Gene ID:	5777		
UniProt:	P29350		
Pathways:	JAK-STAT Signaling, TCR Signaling, TLR Signaling, Nuclear Receptor Transcription Pathway,		
	Positive Regulation of Peptide Hormone Secretion, Steroid Hormone Mediated Signaling		
	Pathway, Response to Growth Hormone Stimulus, Regulation of Leukocyte Mediated Immunity,		
	CXCR4-mediated Signaling Events, Signaling Events mediated by VEGFR1 and VEGFR2, BCR		
	Signaling		
Application Details			
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Application Notes:	Western blot, 0.25-0.5 μg/mL, Human, Mouse		
	Immunocytochemistry/Immunofluorescence, 5 μg/mL, Human		
	Flow Cytometry (Fixed), 1-3 μg/1x10 <sup>6</sup> cells, Human		
	ELISA, 0.1-0.5 μg/mL, -		

1. Banville, D., Stocco, R., Shen, S.-H. Human protein tyrosine phosphatase 1C (PTPN6) gene structure: alternate promoter usage and exon skipping generate multiple transcripts. Genomics 27: 165-173, 1995. 2. Beghini, A., Ripamonti, C. B., Peterlongo, P., Roversi, G., Cairoli, R., Morra, E., Larizza, L. RNA hyperediting and alternative splicing of hematopoietic cell phosphatase (PTPN6) gene in acute myeloid leukemia. Hum. Molec. Genet. 9: 2297-2304, 2000. 3. Croker, B. A., Lawson, B. R., Rutschmann, S., Berger, M., Eidenschenk, C., Blasius, A. L., Moresco, E. M. Y., Sovath, S., Cengia, L., Shultz, L. D., Theofilopoulos, A. N., Pettersson, S., Beutler, B. A. Inflammation and autoimmunity caused by a SHP1 mutation depend on IL-1, MyD88, and microbial trigger. Proc. Nat. Acad. Sci. 105: 15028-15033, 2008. Note: Erratum: Proc. Nat. Acad. Sci. 105: 19561 only, 2008.

Restrictions:

For Research Use only

#### Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 μg/mL.
Concentration:	500 μg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.01 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.