

Datasheet for ABIN3021975  
**anti-SHP1 antibody (AA 100-400)**[Go to Product page](#)

## 4 Images

## Overview

Quantity:	100 µL
Target:	SHP1 (PTPN6)
Binding Specificity:	AA 100-400
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SHP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

## Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 100-400 of human SHP1 (NP_002822.2).
Sequence:	LNCSDPTSER WYHGHMSGGQ AETLLQAKGE PWTFLVRESL SQPGDFVLSV LSDQPKAGPG SPLRVTHIKV MCEGGRYTVG GLETFDSLTD LVEHFKKTGI EEASGAFVYL RQPYATRVN AADENRVLE LNNKQSEEDT AKAGFWEEFE SLQKQEVKNL HQRLEGQRPE NKGKNRYKNI LPFDHSRVIL QGRDSNIPGS DYINANYIKN QLLGPDENAK TYIASQGCLE ATVNDFWQMA WQENSRVIVM TTREVEKGRN KCVPYWPEVG MQRAYGPYSV TNCGEHDTTE YKLRTLQVSP L
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

## Target Details

Target:	SHP1 (PTPN6)
Alternative Name:	PTPN6 ( <a href="#">PTPN6 Products</a> )
Background:	<p>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.,HCP,HCPH,HPTP1C,PTP-1C,SH-PTP1,SHP-1,SHP-1L,SHP1,CTCN6,PTPN6,Cancer,Signal Transduction,G protein signaling,G-Protein-Coupled Receptors(GPCR),Kinase,Tyrosine kinases,Cell Biology &amp; Developmental Biology,Apoptosis,Cell Cycle,Immunology &amp; Inflammation,B Cell Receptor Signaling Pathway,IL-6 Receptor Signaling Pathway,PTPN6</p>
Molecular Weight:	63 kDa/67 kDa/70 kDa
Gene ID:	5777
UniProt:	<a href="#">P29350</a>
Pathways:	<a href="#">JAK-STAT Signaling</a> , <a href="#">TCR Signaling</a> , <a href="#">TLR Signaling</a> , <a href="#">Nuclear Receptor Transcription Pathway</a> , <a href="#">Positive Regulation of Peptide Hormone Secretion</a> , <a href="#">Steroid Hormone Mediated Signaling Pathway</a> , <a href="#">Response to Growth Hormone Stimulus</a> , <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">CXCR4-mediated Signaling Events</a> , <a href="#">Signaling Events mediated by VEGFR1 and VEGFR2</a> , <a href="#">BCR Signaling</a>

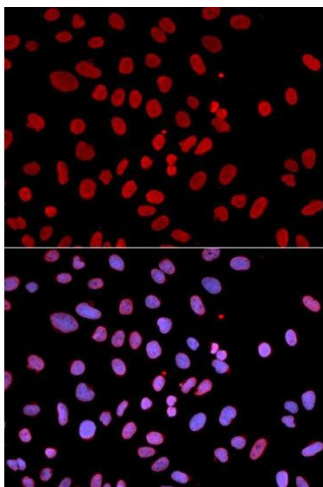
## Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

## Handling

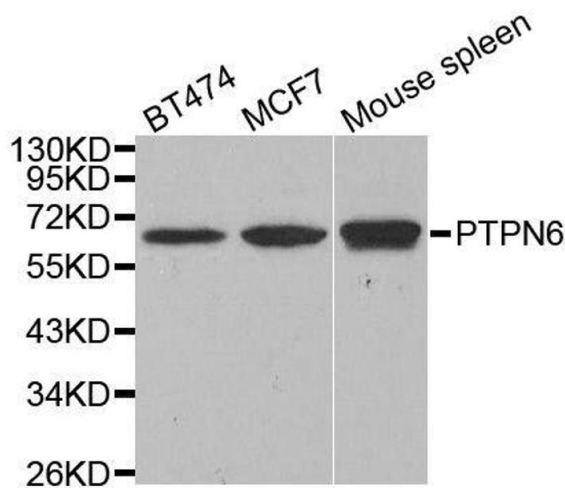
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

## Images



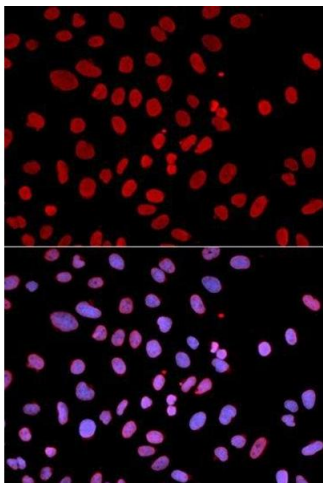
### Immunofluorescence

**Image 1.** Immunofluorescence analysis of U2OS cell using PTPN6 antibody. Blue: DAPI for nuclear staining.



### Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using PTPN6 antibody.



#### Immunofluorescence

**Image 3.** Immunofluorescence analysis of U2OS cells using PTPN6 antibody.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3021975.