

Datasheet for ABIN7320120

SHP1 Protein (AA 207-597) (GST tag,His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	100 µg
Target:	SHP1 (PTPN6)
Protein Characteristics:	AA 207-597
Origin:	Mouse
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This SHP1 protein is labelled with GST tag,His tag.

Product Details

Purpose:	Recombinant Mouse PTPN6/SH-PTP1 Protein (aa 207-597, His & GST Tag)(Active)
Sequence:	Ala207-Lys597
Characteristics:	A DNA sequence encoding the mouse PTPN6 (P29351-2) (Ala207-Lys597) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 85 % as determined by SDS-PAGE
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to dephosphorylate a phosphotyrosine residue in an EGF receptor 988998 phosphopeptide substrate, R&D Systems, Catalog # ES006. The specific activity is > 4 µ moles/min/µg.

Target Details

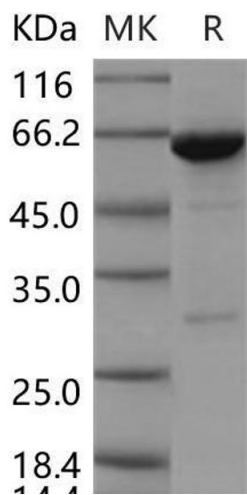
Target:	SHP1 (PTPN6)
Alternative Name:	PTPN6/SH-PTP1 (PTPN6 Products)
Background:	<p>Background: PTPN6 is an enzyme which belongs to the protein tyrosine phosphatase (PTP) family. PTPs are signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. N-terminal part of PTPN6 contains two tandem Src homolog (SH2) domains, which act as protein phospho-tyrosine binding domains, and mediate the interaction of PTPN6 with its substrates. PTPN6 is expressed primarily in hematopoietic cells, and functions as an important regulator of multiple signaling pathways in hematopoietic cells. It has been shown that PTPN6 interacts with, and dephosphorylate a wide spectrum of phospho-proteins involved in hematopoietic cell signaling.</p> <p>Synonym: 70Z-SHP,hcp,Hcph,me,Ptp1C,PTPTY-42,SH-PTP1,SHP-1</p>
Molecular Weight:	72.7 kDa
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

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile 20 mM Tris, 500 mM NaCl, pH 7.0, 10 % glycerol
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.</p>



Western Blotting

Image 1.