Datasheet for ABIN7563072
SHP1 Protein (AA 1-595) (His tag)

Overview

Quantity:	1 mg
Target:	SHP1 (PTPN6)
Protein Characteristics:	AA 1-595
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This SHP1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Ptpn6 Protein expressed in mammalien cells.
Sequence:	MVRWFHRDLS GPDAETLLKG RGVPGSFLAR PSRKNQGDFS LSVRVDDQVT HIRIQNSGDF YDLYGGEKFA TLTELVEYYT QQQGILQDRD GTIIHLKYPL NCSDPTSERW YHGHISGGQA ESLLQAKGEP WTFLVRESLS QPGDFVLSVL NDQPKAGPGS PLRVTHIKVM CEGGRYTVGG SETFDSLTDL VEHFKKTGIE EASGAFVYLR QPYYATRVNA ADIENRVLEL NKKQESEDTA KAGFWEEFES LQKQEVKNLH QRLEGQRPEN KSKNRYKNIL PFDHSRVILQ GRDSNIPGSD YINANYVKNQ LLGPDENSKT YIASQGCLDA TVNDFWQMAW QENTRVIVMT TREVEKGRNK CVPYWPEVGT QRVYGLYSVT NSREHDTAEY KLRTLQISPL DNGDLVREIW HYQYLSWPDH GVPSEPGGVL SFLDQINQRQ ESLPHAGPII VHCSAGIGRT GTIIVIDMLM ESISTKGLDC DIDIQKTIQM VRAQRSGMVQ TEAQYKFIYV AIAQFIETTK KKLEIIQSQK GQESEYGNIT YPPAVRSAHA KASRTSSKHK EEVYENVHSK SKKEEKVKKQ RSADKEKNKG SLKRK **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression**

Product Details

	system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Characteristics:	Key Benefits: • Made to order protein - from design to production - by highly experienced protein experts. • Protein expressed in mammalien cells and purified in one-step affinity chromatography • The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins. • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. If you are not interested in a full length protein, please contact us for individual protein fragments. The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	SHP1 (PTPN6)
Alternative Name:	Ptpn6 (PTPN6 Products)
Background:	Tyrosine-protein phosphatase non-receptor type 6 (EC 3.1.3.48) (70Z-SHP) (Hematopoietic cell protein-tyrosine phosphatase) (PTPTY-42) (Protein-tyrosine phosphatase 1C) (PTP-1C) (SH-PTP1) (SHP-1),FUNCTION: Modulates signaling by tyrosine phosphorylated cell surface receptors such as KIT and the EGF receptor/EGFR. Enhances the inhibition of mast cell activation mediated by the Lilrb4a receptor (PubMed:10026201). The SH2 regions may interact with other cellular components to modulate its own phosphatase activity against interacting substrates. Together with MTUS1, induces UBE2V2 expression upon angiotensin II stimulation. Plays a key role in hematopoiesis. {ECO:0000269|PubMed:10026201, ECO:0000269|PubMed:9528781}.
Molecular Weight:	67.6 kDa

Target Details

UniProt:	P29351
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

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months