Datasheet for ABIN7197591

PTPN11 Protein (His tag)

1 Image

Go to Product page

Overview

Quantity:	200 µg
Target:	PTPN11
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PTPN11 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Mouse SHP2/PTPN11 Protein (His Tag)(Active)
Sequence:	Met1-Arg593
Characteristics:	A DNA sequence encoding the mouse PTPN11 (P35235-2) (Met1-Arg593) was expressed with a C-terminal polyhistidine tag.
Purity:	> 90 % 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 tyrosine residue in a peptide containing the EGFR Y992 phosphorylation site (Catalog # ES006).The specific activity is > 1 pmoles/min/µg.

Target Details

Target:	PTPN11

Target Details

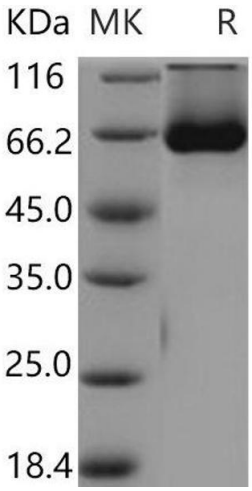
Alternative Name:	SHP2/PTPN11 (PTPN11 Products)
Target Type:	Viral Protein
Background:	Background: SHP2, also known as PTPN11, belongs to the protein-tyrosine phosphatase(PTP) family, non-receptor class 2 subfamily. PTPs catalyze the removal of phosphate groups from tyrosine residues by the hydrolysis of phosphoric acid monoesters. They dephosphorylate EGFR, JAK2 and TYK2 kinases, promoting oncogenic transformation. SHP2 is widely expressed, with highest levels in heart, brain, and skeletal muscle. SHP2 acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus. It also dephosphorylates ROCK2 at Tyr-722 resulting in stimulatation of its RhoA binding activity. Synonym: 2700084A17Rik,AW536184,PTP1D,PTP2C,SAP-2,SH-PTP2,SH-PTP3,SHP-2,Shp2,Syp
Molecular Weight:	69.5 kDa
Pathways:	JAK-STAT Signaling, RTK Signaling, TCR Signaling, Interferon-gamma Pathway, Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Negative Regulation of Hormone Secretion, Carbohydrate Homeostasis, Toll-Like Receptors Cascades, CXCR4-mediated Signaling Events, Signaling Events mediated by VEGFR1 and VEGFR2, Signaling of Hepatocyte Growth Factor Receptor, VEGFR1 Specific Signals, BCR Signaling, Warburg Effect

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. 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.



Western Blotting

Image 1.