

SHP2 / PTPN11 active protein

Recombinant Mouse SHP2 / PTPN11 Protein (His tag)

CATALOG #
AAA173592

HOST
HEK293 Cells

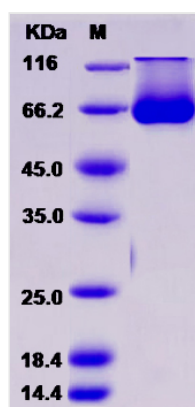
PRODUCT SYNONYMS

SHP2 / PTPN11; Recombinant Mouse SHP2 / PTPN11 Protein (His tag); 2700084A17Rik;AW536184;PTP1D;PTP2C;SAP-2;SH-PTP2;SH-PTP3;SHP-2;Shp2;Syp; SHP2 / PTPN11 active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	> 90 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile 20mM Tris, 0.1M NaCl, 10% glycerol, 1Mm TCEP, 5% Trehalose, 5% Mannitol, 0.01% Tween 80.
Sequence Length	593
Tag	C-his
Bio-Activity	Measured by its ability to dephosphorylate a tyrosine residue in a peptide containing the EGFR Y992 phosphorylation site .The specific activity is > 1 pmoles/min/ug.
Endotoxin	< 1.0 EU per ug of the protein as determined by the LAL method
Reconstitution	It is recommended that sterile water (1000 ul) be added to the vial to prepare a stock solution of 0.1 mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Lyophilized protein should be stored at < -20°C , though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4°C to 7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for SHP2 / PTPN11 active protein	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 stimulation of its RhoA binding activity.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	158508568
NCBI GeneID	19247
NCBI Accession #	NP_001103462.1
NCBI GenBank Nucleotide #	NM_001109992.1
UniProt Accession #	P35235; Q3TQ84; Q64509; Q6PCL5
Molecular Weight	AP_Mol_Mass: 65 kDa Mol. Mass: 69.5 kDa
NCBI Official Full Name	tyrosine-protein phosphatase non-receptor type 11 isoform b
NCBI Official Synonym Full Names	protein tyrosine phosphatase, non-receptor type 11
NCBI Official Symbol	Ptpn11
NCBI Official Synonym Symbols	Syp; Shp2; PTP1D; PTP2C; SAP-2; SHP-2; SH-PTP2; SH-PTP3; AW536184; 2700084A17Rik
NCBI Protein Information	tyrosine-protein phosphatase non-receptor type 11
UniProt Protein Name	Tyrosine-protein phosphatase non-receptor type 11
UniProt Gene Name	Ptpn11
UniProt Synonym Gene Names	SHP-2; Shp2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.