

PTPN11 / SHP-2 / NS1 Antibody (N-Terminus)
Rabbit Polyclonal Antibody
Catalog # ALS11433**Specification**

PTPN11 / SHP-2 / NS1 Antibody (N-Terminus) - Product Information

Application	WB, IF, IHC
Primary Accession	Q06124
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	68kDa KDa

PTPN11 / SHP-2 / NS1 Antibody (N-Terminus) - Additional Information**Gene ID** 5781**Other Names**

Tyrosine-protein phosphatase non-receptor type 11, 3.1.3.48, Protein-tyrosine phosphatase 1D, PTP-1D, Protein-tyrosine phosphatase 2C, PTP-2C, SH-PTP2, SHP-2, Shp2, SH-PTP3, PTPN11, PTP2C, SHPTP2

Target/Specificity

14 amino acid peptide from near the amino terminus of human SHP2

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles. Store undiluted.

Precautions

PTPN11 / SHP-2 / NS1 Antibody (N-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

PTPN11 / SHP-2 / NS1 Antibody (N-Terminus) - Protein Information**Name** PTPN11**Synonyms** PTP2C, SHPTP2**Function**

Acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus (PubMed:10655584, PubMed:18559669, PubMed:18829466, PubMed:26742426, PubMed:28074573). Positively regulates MAPK signal transduction pathway (PubMed:28074573).

Dephosphorylates GAB1, ARHGAP35 and EGFR (PubMed:28074573). Dephosphorylates ROCK2 at 'Tyr-722' resulting in stimulation of its RhoA binding activity (PubMed:18559669). Dephosphorylates CDC73 (PubMed:26742426). Dephosphorylates SOX9 on tyrosine residues, leading to inactivate SOX9 and promote ossification (By similarity). Dephosphorylates tyrosine-phosphorylated NEDD9/CAS-L (PubMed:19275884).

Cellular Location

Cytoplasm. Nucleus

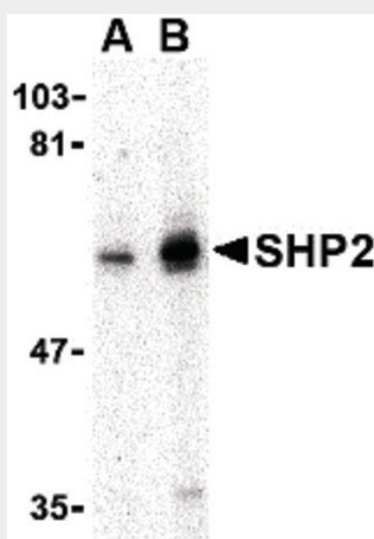
Tissue Location

Widely expressed, with highest levels in heart, brain, and skeletal muscle.

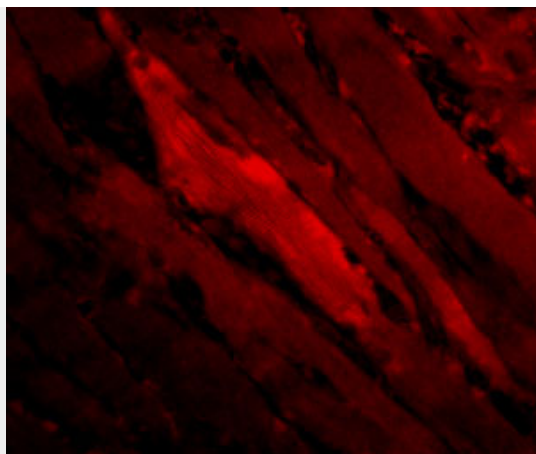
PTPN11 / SHP-2 / NS1 Antibody (N-Terminus) - Protocols

Provided below are standard protocols that you may find useful for product applications.

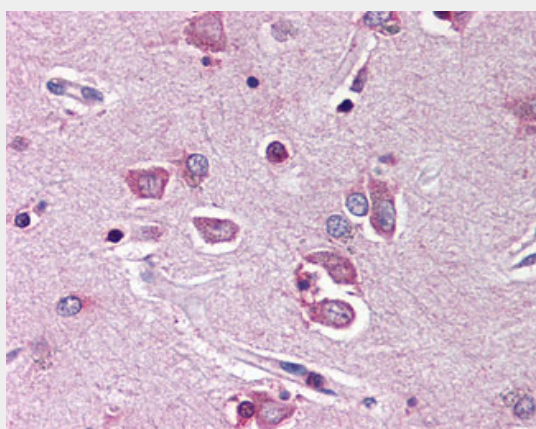
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

PTPN11 / SHP-2 / NS1 Antibody (N-Terminus) - Images

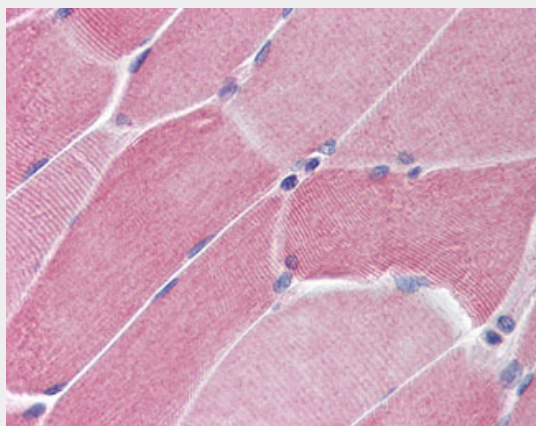
Western blot of SHP2 in mouse skeletal muscle tissue lysate with SHP2 antibody at (A) 0.5 and...



Immunofluorescence of SHP2 in Human Skeletal Muscle cells with SHP2 antibody at 20 ug/ml.



Anti-PTPN11 antibody IHC of human brain, cortex.



Anti-PTPN11 antibody IHC of human skeletal muscle.

PTPN11 / SHP-2 / NS1 Antibody (N-Terminus) - Background

Acts downstream of various receptor and cytoplasmic protein tyrosine kinases to participate in the signal transduction from the cell surface to the nucleus. Dephosphorylates ROCK2 at Tyr-722 resulting in stimulation of its RhoA binding activity.

PTPN11 / SHP-2 / NS1 Antibody (N-Terminus) - References

Adachi M., et al. FEBS Lett. 314:335-339(1992).

Freeman R.M. Jr.,et al.Proc. Natl. Acad. Sci. U.S.A. 89:11239-11243(1992).
Bastien L.,et al.Biochem. Biophys. Res. Commun. 196:124-133(1993).
Ahmad S.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:2197-2201(1993).
Vogel W.,et al.Science 259:1611-1614(1993).