10320 Camino Santa Fe, Suite G
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SH-PTP2 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50017

Specification

SH-PTP2 Antibody - Product Information

Application	**WB, IHC**
Primary Accession	Q06124
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**68 KDa**
Antigen Region	**333-366**

SH-PTP2 Antibody - Additional Information

Gene ID 5781

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

Dilution
WB~~ 1:500-1:1000
IHC~~1:50-1:100

Format
Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

Storage Conditions
-20℃

SH-PTP2 Antibody - 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:14739280, 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

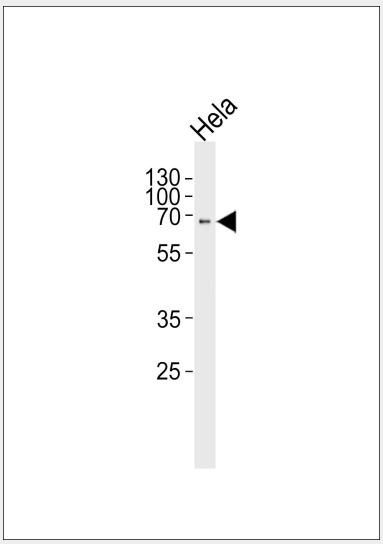
Tissue Location
Widely expressed, with highest levels in heart, brain, and skeletal muscle.

SH-PTP2 Antibody - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SH-PTP2 Antibody - Images



Western blot analysis of lysates from 293,Hela cell line (from left to right),using SH-PTP2 Antibody(C0321). C0321 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug per lane.

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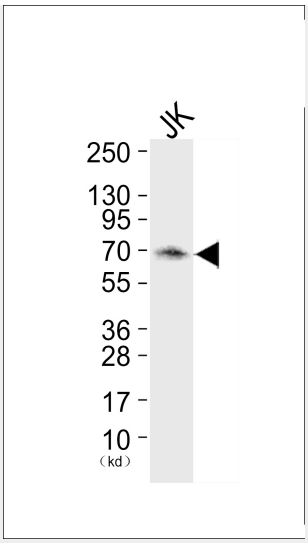
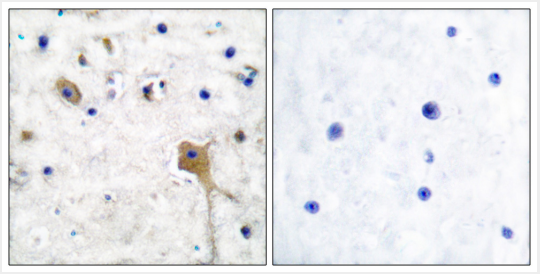


Western blot analysis of extracts from JK cells (Lane 2), using SH-PTP2 Antibody. The lane on the left is treated with systhesized peptide.



Immunohistochemical analysis of paraffin-embedded human brain tissue using SH-PTP2 antibody .

SH-PTP2 Antibody - 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 stimulatation of its RhoA binding activity.

SH-PTP2 Antibody - 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).
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