

**SH-PTP2 Polyclonal Antibody**  
Catalog # AP72477**Specification****SH-PTP2 Polyclonal Antibody - Product Information**

Application	WB
Primary Accession	<a href="#">Q06124</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

**SH-PTP2 Polyclonal Antibody - Additional Information**

Gene ID 5781

**Other Names**

PTPN11; PTP2C; SHPTP2; 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

**Dilution**

WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/40000. Not yet tested in other applications.

**Format**

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

**Storage Conditions**

-20°C

**SH-PTP2 Polyclonal 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](http://www.uniprot.org/citations/10655584)), PubMed:[14739280](http://www.uniprot.org/citations/14739280)), PubMed:[18559669](http://www.uniprot.org/citations/18559669)), PubMed:[18829466](http://www.uniprot.org/citations/18829466)), PubMed:[26742426](http://www.uniprot.org/citations/26742426)), PubMed:[28074573](http://www.uniprot.org/citations/28074573)). Positively regulates MAPK signal transduction pathway (PubMed:[28074573](http://www.uniprot.org/citations/28074573)).

Dephosphorylates GAB1, ARHGAP35 and EGFR (PubMed:[28074573](http://www.uniprot.org/citations/28074573)).

<http://www.uniprot.org/citations/28074573> target="\_blank">28074573</a>). Dephosphorylates ROCK2 at 'Tyr-722' resulting in stimulation of its RhoA binding activity (PubMed:<a href="http://www.uniprot.org/citations/18559669" target="\_blank">18559669</a>). Dephosphorylates CDC73 (PubMed:<a href="http://www.uniprot.org/citations/26742426" target="\_blank">26742426</a>). Dephosphorylates SOX9 on tyrosine residues, leading to inactivate SOX9 and promote ossification (By similarity). Dephosphorylates tyrosine-phosphorylated NEDD9/CAS-L (PubMed:<a href="http://www.uniprot.org/citations/19275884" target="\_blank">19275884</a>).

**Cellular Location**

Cytoplasm. Nucleus

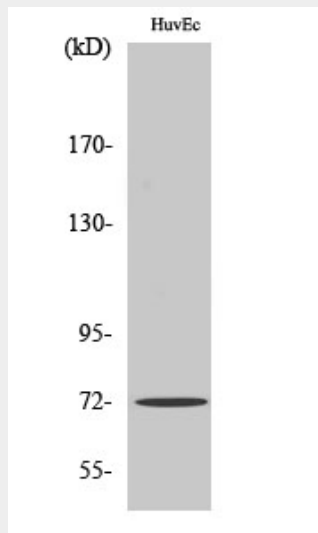
**Tissue Location**

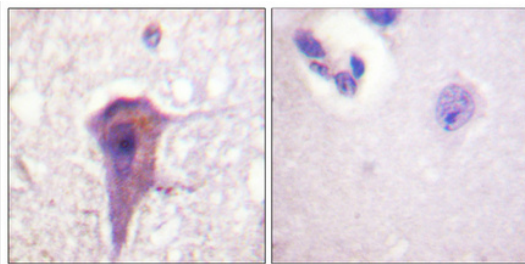
Widely expressed, with highest levels in heart, brain, and skeletal muscle.

**SH-PTP2 Polyclonal 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 Cytometry](#)
- [Cell Culture](#)

**SH-PTP2 Polyclonal Antibody - Images**



### **SH-PTP2 Polyclonal 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. 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. Dephosphorylates CDC73 (PubMed:26742426).