

**SIPA1L1 Antibody**  
**Catalog # ASC11018****Specification**

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**SIPA1L1 Antibody - Product Information**

Application	WB, IHC, IF
Primary Accession	<a href="#">O43166</a>
Other Accession	<a href="#">NP_056371</a> , <a href="#">7662126</a>
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Application Notes	SIPA1L1 antibody can be used for detection of SIPA1L1 by Western blot at 0.5 - 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.

**SIPA1L1 Antibody - Additional Information**

Gene ID	26037
Target/Specificity	
SIPA1L1;	

**Reconstitution & Storage**

SIPA1L1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

**Precautions**

SIPA1L1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**SIPA1L1 Antibody - Protein Information**

**Name** SIPA1L1

**Synonyms** E6TP1, KIAA0440

**Function**

Stimulates the GTPase activity of RAP2A. Promotes reorganization of the actin cytoskeleton and recruits DLG4 to F-actin. Contributes to the regulation of dendritic spine morphogenesis (By similarity).

**Cellular Location**

Cytoplasm, cytoskeleton. Postsynaptic density. Synapse, synaptosome Note=Associated with the actin cytoskeleton. Detected at synapses and dendritic spines of cultured hippocampal neurons (By similarity)

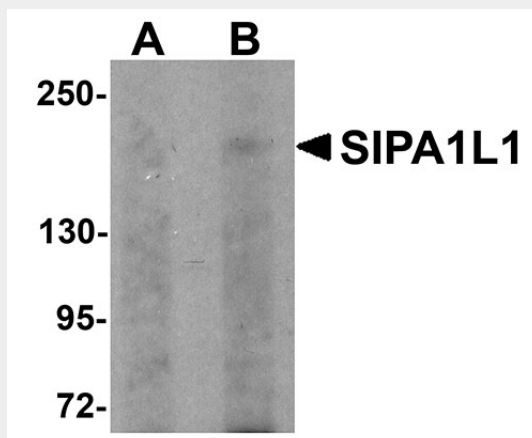
**Tissue Location**

Widely expressed..

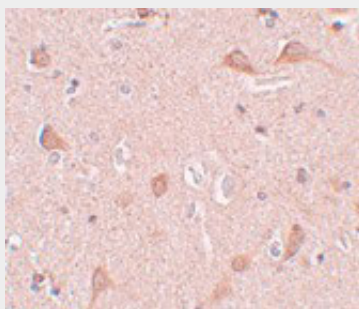
**SIPA1L1 Antibody - Protocols**

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

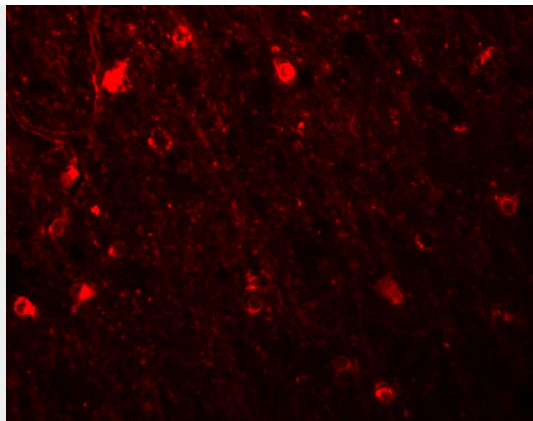
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**SIPA1L1 Antibody - Images**

Western blot analysis of SIPA1L1 in rat brain tissue lysate with SIPA1L1 antibody at (A) 0.5 and (B) 1 µg/mL.



Immunohistochemistry of SIPA1L1 in human brain tissue with SIPA1L1 antibody at 5 µg/mL.



Immunofluorescence of SIPA1L1 in human brain tissue with SIPA1L1 antibody at 20 µg/mL.

### **SIPA1L1 Antibody - Background**

**SIPA1L1 Antibody:** Signal-induced proliferation associated-like protein 1 (SIPA1L1) is a member of the SIPA1 family of RapGAPs. SIPA1L1 was initially identified as a binding partner and degradation target of the E6 oncoprotein of high-risk papillomaviruses. Recently, it was discovered that Casein kinase I epsilon (CKIε), a Wnt-regulated kinase that regulates Wnt/b-catenin signaling, also can bind to the carboxy-terminus of SIPA1L1. CKIε phosphorylates SIPA1L1, thereby reducing its stability and alleviating its inhibition of Rap1, a protein required for Wnt8/CKIε-mediated gastrulation during embryogenesis, suggesting SIPA1L1 plays important roles in embryo development as well as control of cell proliferation.

### **SIPA1L1 Antibody - References**

Minato N and Hattori M. SPA-1 (Sipa1) and Rap signaling in leukemia and cancer metastasis. *Cancer Sci.*2009; 100:17-23.

Gao Q, Srinivasan S, Boyer SN, et al. The E6 oncoproteins of high-risk papillomaviruses bind to a novel putative GAP protein, E6TP1, and target it for degradation. *Mol. Cell Biol.*1999; 19:733-44.

Tsai I-C, Amack JD, Gao Z-H, et al. A Wnt-CKI e-Rap1 pathway regulates gastrulation by modulating SIPA1L1, a Rap GTPase activating protein. *Dev. Cell*2007; 12:335-47.