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SIPA1L1 Antibody
Catalog # ASC11018

Specification

SIPA1L1 Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	O43166
Other Accession	NP_056371, 7662126
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℃ for three months and -20℃, 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)

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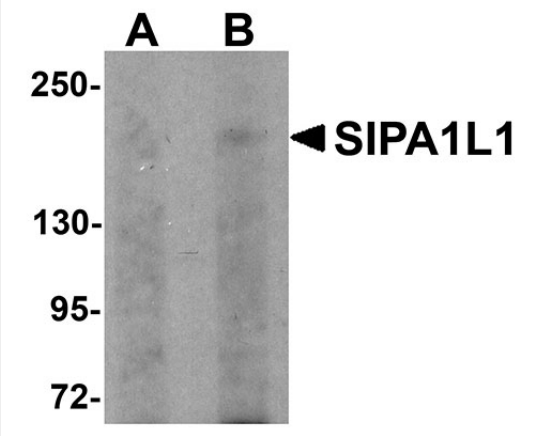
Tissue Location
Widely expressed..

SIPA1L1 Antibody - Protocols

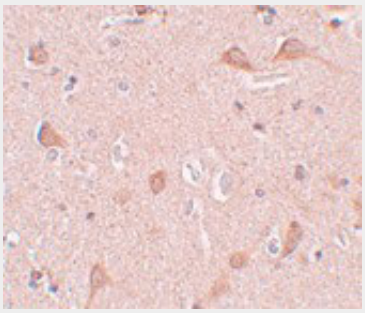
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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.

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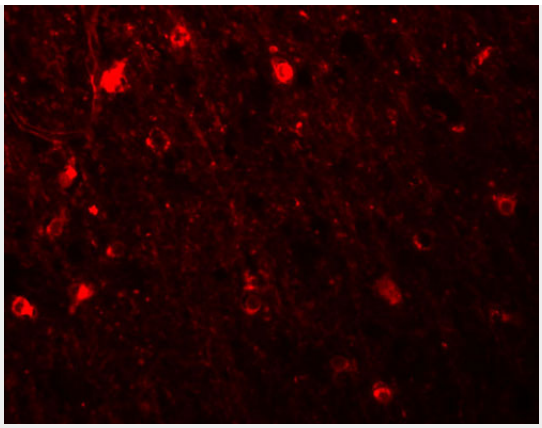

Immunofluorescence of SIPA1L1 in human brain tissue with SIPA1L1 antibody at 20 µg/mL.

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 (CKIe), a Wnt-regulated kinase that regulates Wnt/b-catenin signaling, also can bind to the carboxy-terminus of SIPA1L1. CKIe phosphorylates SIPA1L1, thereby reducing its stability and alleviating its inhibition of Rap1, a protein required for Wnt8/CKIe-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. Cell2007; 12:335-47.