

SIPA1L1 Antibody

Catalog # ASC11018

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	O43166
Other Accession	NP_056371 , 7662126
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	200029
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	SIPA1L1 antibody can be used for detection of SIPA1L1 by Western blot at 0.5 - 1 μ g/mL. Antibody can also be used for immunohistochemistry starting at 5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	26037
Other Names	Signal-induced proliferation-associated 1-like protein 1, SIPA1-like protein 1, High-risk human papilloma viruses E6 oncoproteins targeted protein 1, E6-targeted protein 1, SIPA1L1, E6TP1, KIAA0440
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.

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..

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/β-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.

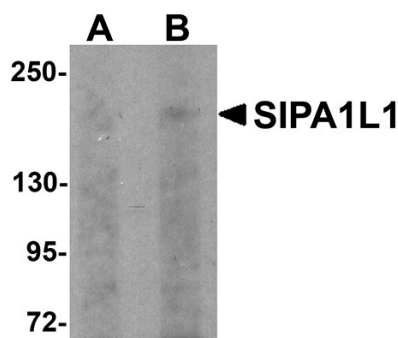
References

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

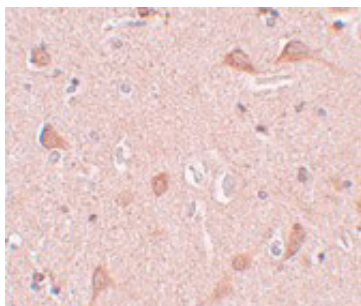
Gao Q, Srinivasan S, Boyer SN, et al. The E6 oncoproteins of high-risk papillomaviruses bind to a novel putative GAP protein, E6TP1, and target it for degradation. *Mol. Cell Biol.*1999; 19:733-44.

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.

Images

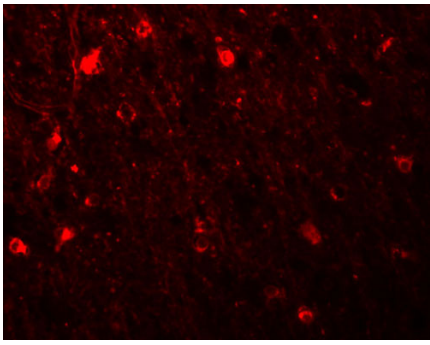


Western blot analysis of SIPA1L1 in rat brain tissue lysate with SIPA1L1 antibody at (A) 0.5 and (B) 1 µg/mL.



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.



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