

SHISA9 Antibody

Catalog # ASC11238

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	B4DS77
Other Accession	NP_001138676 , 291463300
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	46925
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	SHISA9 antibody can be used for detection of SHISA9 by Western blot at 1 μ g/mL. Antibody can also be used for immunohistochemistry starting at 2.5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	729993
Other Names	Protein shisa-9, SHISA9
Target/Specificity	SHISA9;
Reconstitution & Storage	SHISA9 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	SHISA9 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SHISA9
Function	Regulator of short-term neuronal synaptic plasticity in the dentate gyrus. Associates with AMPA receptors (ionotropic glutamate receptors) in synaptic spines and promotes AMPA receptor desensitization at excitatory synapses (By similarity).
Cellular Location	Cell projection, dendritic spine membrane; Single-pass type I membrane protein Synapse

Background

SHISA9 Antibody: Shisa proteins are a recently-identified family of modulators of both FGF and Wnt signaling that block both maturation and transport to the cell surface of their respective receptors. SHISA9, also known as CKAMP44a, is a brain-specific type I transmembrane protein that associates with AMPA receptors in synaptic spines and promotes AMPA receptor desensitization at excitatory synapses. It is thought to modulate short-term plasticity at specific excitatory synapses.

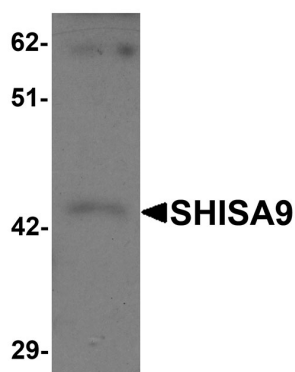
References

Hedge TA and Mason I. Expression of Shisa2, a modulator of both Wnt and Fgf signaling, in the chick embryo. *Int. J. Dev. Biol.* 2008; 52:81-5.

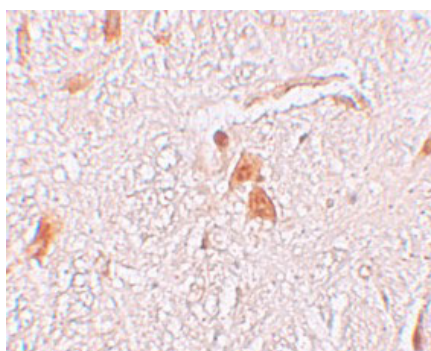
Von Engelhardt J, Mack V, Sprengel R, et al. CKAMP44: a brain-specific protein attenuating short-term synaptic plasticity in the dentate gyrus. *Science* 2010; 327:1518-22.

O'Donovan MC, Craddock N, Norton N, et al. Identification of loci associated with schizophrenia by genome-wide association and follow-up. *Nat. Genet.* 2008; 40:1053-5.

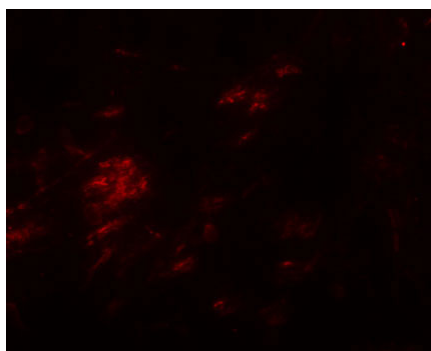
Images



Western blot analysis of SHISA9 in rat brain tissue lysate with SHISA9 antibody at 1 μ g/mL.



Immunohistochemistry of SHISA9 in human brain tissue with SHISA9 antibody at 2.5 μ g/mL.



Immunofluorescence of SHISA9 in human brain tissue with SHISA9 antibody at 20 μ g/mL.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.