10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SLINGSHOT-1L Antibody

Purified Mouse Monoclonal Antibody
Catalog # AO2009a

Product Information

Application	FC, ICC, E
Primary Accession	Q8WYL5
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	1A5C8
Isotype	IgG1
Calculated MW	115511
Description	The protein encoded by this gene belongs to the slingshot homolog (SSH) family of phosphatases, which regulate actin filament dynamics. The SSH proteins dephosphorylate and activate the actin binding/depolymerizing factor cofilin, which subsequently binds to actin filaments and stimulates their disassembly. Cofilin is inactivated by kinases such as LIM domain kinase-1 (LIMK1), which may also be dephosphorylated and inactivated by SSH proteins. The SSH family thus appears to play a role in actin dynamics by reactivating cofilin proteins. Alternatively spliced transcript variants encoding different isoforms have been described for this gene.
Immunogen	Synthesized peptide fragment of human SLINGSHOT-1L (AA: 1032-1044) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide

Additional Information

Gene ID	54434
Other Names	Protein phosphatase Slingshot homolog 1, 3.1.3.16, 3.1.3.48, SSH-like protein 1, SSH-1L, hSSH-1L, SSH1, KIAA1298, SSH1L
Dilution	FC~~1/200 - 1/400 ICC~~N/A E~~1/10000
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SLINGSHOT-1L Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SSH1 (HGNC:30579)
Synonyms	KIAA1298, SSH1L
Function	Protein phosphatase which regulates actin filament dynamics. Dephosphorylates and activates the actin binding/depolymerizing factor cofilin, which subsequently binds to actin filaments and stimulates their disassembly. Inhibitory phosphorylation of cofilin is mediated by LIMK1, which may also be dephosphorylated and inactivated by this protein.
Cellular Location	Cytoplasm, cytoskeleton. Cell projection, lamellipodium. Cleavage furrow. Midbody. Note=Also recruited to actin rich membrane protrusions such as lamellipodia, which may allow local control of actin dynamics at sites of cell locomotion. Also localized to the cleavage furrow and the midbody during cytokinesis

References

Molecules. 2012 Dec 17;17(12):14975-94.Nan Fang Yi Ke Da Xue Xue Bao. 2011 Jun;31(6):928-32.

Images