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SSH3 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant SSH3.
Catalog # AT4046a

Product Information

Application	WB, IHC, IF, IP, E
Primary Accession	Q8TE77
Other Accession	NM_017857
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	6F9
Calculated MW	72996

Additional Information

Gene ID	54961
Other Names	Protein phosphatase Slingshot homolog 3, SSH-like protein 3, SSH-3L, hSSH-3L, SSH3, SSH3L
Target/Specificity	SSH3 (NP_060327, 293 a.a. ~ 391 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IHC~~1:100~500 IF~~1:50~200 IP~~N/A E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	SSH3 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

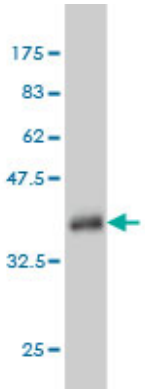
The ADF (actin-depolymerizing factor)/cofilin family (see MIM 601442) is composed of stimulus-responsive mediators of actin dynamics. ADF/cofilin proteins are inactivated by kinases such as LIM domain kinase-1 (LIMK1; MIM 601329). The SSH family appears to play a role in actin dynamics by reactivating ADF/cofilin proteins in vivo (Niwa et al., 2002 [PubMed 11832213]).

References

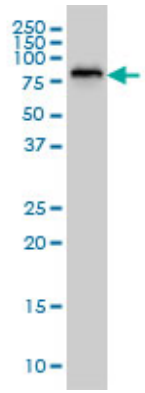
Slingshot-3 dephosphorylates ADF/cofilin but is dispensable for mouse development. Kousaka K, et al. Genesis, 2008 May. PMID 18442045.The slingshot family of phosphatases mediates Rac1 regulation of cofilin

phosphorylation, laminin-332 organization, and motility behavior of keratinocytes. Kligys K, et al. J Biol Chem, 2007 Nov 2. PMID 17848544.A probability-based approach for high-throughput protein phosphorylation analysis and site localization. Beausoleil SA, et al. Nat Biotechnol, 2006 Oct. PMID 16964243.Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.Interplay between components of a novel LIM kinase-slingshot phosphatase complex regulates cofilin. Soosairajah J, et al. EMBO J, 2005 Feb 9. PMID 15660133.

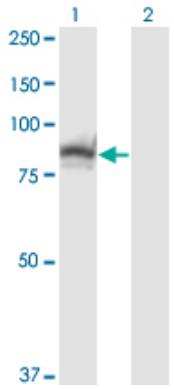
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .

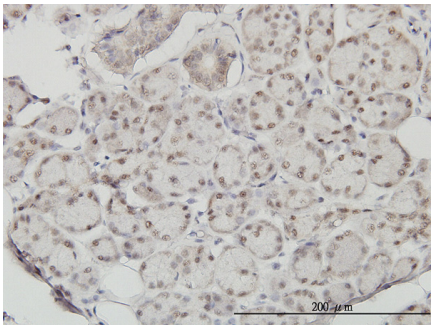


SSH3 monoclonal antibody (M01), clone 6F9 Western Blot analysis of SSH3 expression in A-431 ((Cat # AT4046a)

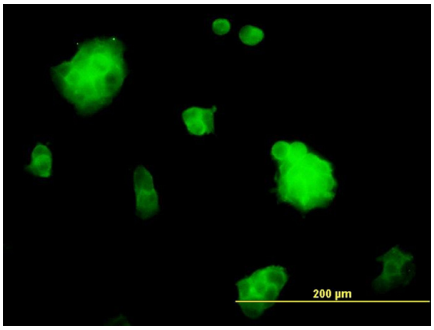


Western Blot analysis of SSH3 expression in transfected 293T cell line by SSH3 monoclonal antibody (M01), clone 6F9.

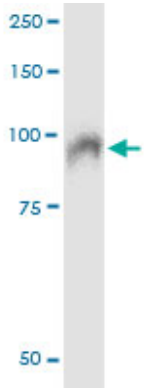
Lane 1: SSH3 transfected lysate(73 KDa).
Lane 2: Non-transfected lysate.



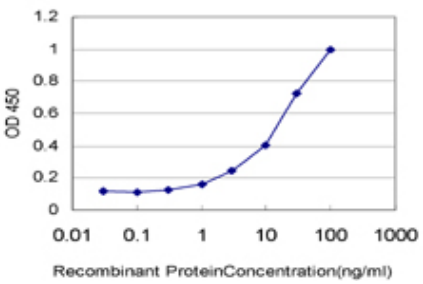
Immunoperoxidase of monoclonal antibody to SSH3 on formalin-fixed paraffin-embedded human salivary gland. [antibody concentration 1 ~ 10 ug/ml]



Immunofluorescence of monoclonal antibody to SSH3 on A-431 cell. [antibody concentration 10 ug/ml]



Immunoprecipitation of SSH3 transfected lysate using anti-SSH3 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with SSH3 monoclonal antibody.



Detection limit for recombinant GST tagged SSH3 is approximately 0.3ng/ml as a capture antibody.

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