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

SSH3 Antibody (monoclonal) (M01)

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

Specification

SSH3 Antibody (monoclonal) (M01) - Product Information

Application	**IF, IP, WB, IHC, E**
Primary Accession	Q8TE77
Other Accession	NM_017857
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**72996**

SSH3 Antibody (monoclonal) (M01) - 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

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.

SSH3 Antibody (monoclonal) (M01) - Protocols

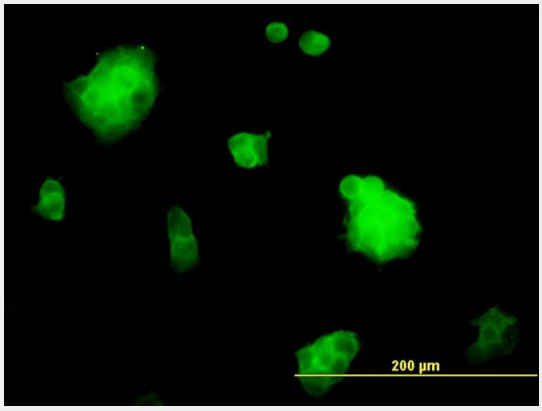
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

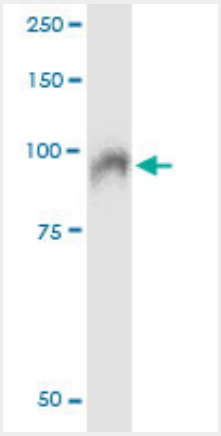
10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

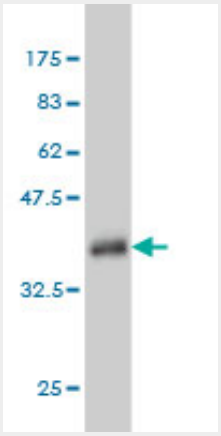
SSH3 Antibody (monoclonal) (M01) - Images



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

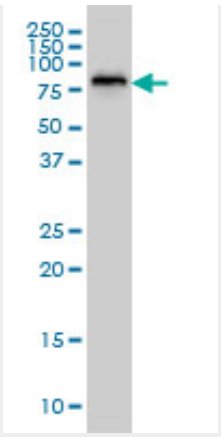


Immunoprecipitation of SSH3 transfected lysate using anti-SSH3 monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with SSH3 monoclonal antibody.

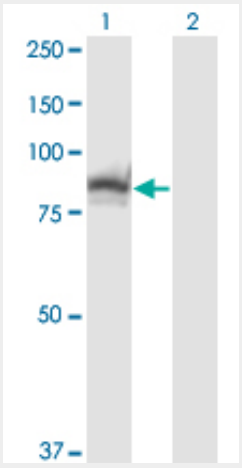


Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.63 KDa) .

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

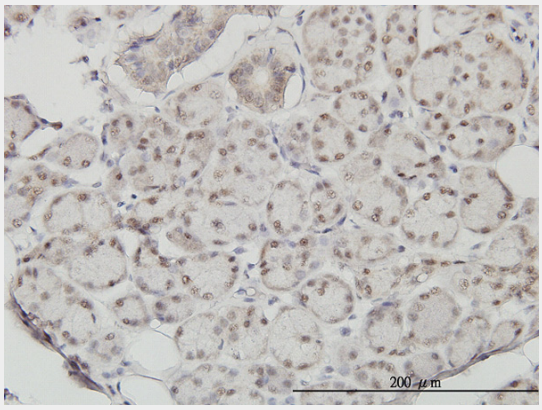


SSH3 monoclonal antibody (M01), clone 6F9 Western Blot analysis of SSH3 expression in A-431 ((Cat # AT4046a)



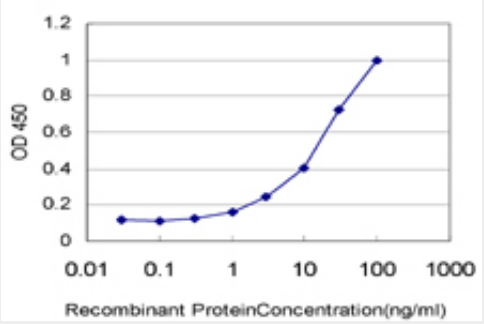
Western Blot analysis of SSH3 expression in transfected 293T cell line by SSH3 monoclonal antibody (M01), clone 6F9.

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]

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



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

SSH3 Antibody (monoclonal) (M01) - 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]).

SSH3 Antibody (monoclonal) (M01) - 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.