

SSH3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11697b

Product Information

Application	IHC-P, FC, IF, WB, E
Primary Accession	Q8TE77
Other Accession	NP_060327.3
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB19876
Calculated MW	72996
Antigen Region	575-602

Additional Information

Gene ID	54961
Other Names	Protein phosphatase Slingshot homolog 3, SSH-like protein 3, SSH-3L, hSSH-3L, SSH3, SSH3L
Target/Specificity	This SSH3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 575-602 amino acids from the C-terminal region of human SSH3.
Dilution	IHC-P~~1:100~500 FC~~1:10~50 IF~~1:10~50 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SSH3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SSH3
Synonyms	SSH3L

Function Protein phosphatase which may play a role in the regulation of actin filament dynamics. Can dephosphorylate and activate the actin binding/depolymerizing factor cofilin, which subsequently binds to actin filaments and stimulates their disassembly (By similarity).

Cellular Location Cytoplasm, cytoskeleton. Nucleus

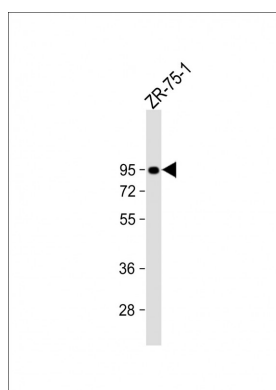
Background

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]).

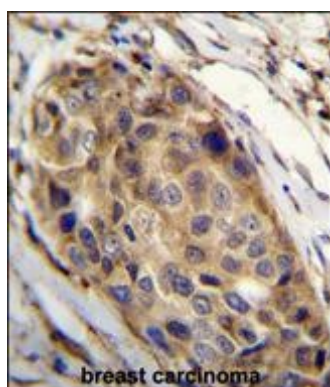
References

Kousaka, K., et al. *Genesis* 46(5):246-255(2008)
Kligys, K., et al. *J. Biol. Chem.* 282(44):32520-32528(2007)
Beausoleil, S.A., et al. *Nat. Biotechnol.* 24(10):1285-1292(2006)
Soosairajah, J., et al. *EMBO J.* 24(3):473-486(2005)
Ohta, Y., et al. *Genes Cells* 8(10):811-824(2003)

Images

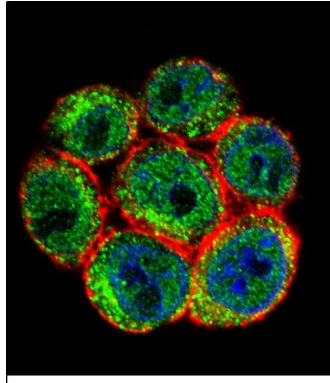
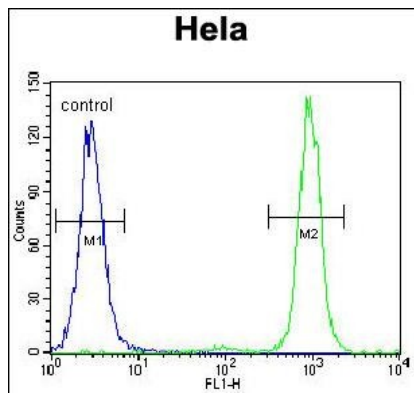


Anti-SSH3 Antibody (C-term) at 1:1000 dilution + ZR-75-1 whole cell lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 73 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



SSH3 Antibody (C-term) (Cat. #AP11697b) immunohistochemistry analysis in formalin fixed and paraffin embedded human breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of SSH3 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

SSH3 Antibody (C-term) (Cat. #AP11697b) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Confocal immunofluorescent analysis of SSH3 Antibody (C-term)(Cat#AP11697b) with Hela cell followed by Alexa Fluor 488-conjugated goat anti-rabbit IgG (green). Actin filaments have been labeled with Alexa Fluor 555 phalloidin (red). DAPI was used to stain the cell nuclear (blue).

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