




Product datasheet

Anti-Slingshot homolog 1/SSH1 antibody [6C11G9] ab204945

2 Images

Overview

<b>Product name</b>	Anti-Slingshot homolog 1/SSH1 antibody [6C11G9]
<b>Description</b>	Mouse monoclonal [6C11G9] to Slingshot homolog 1/SSH1
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, Flow Cyt
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
<b>Immunogen</b>	Synthetic peptide corresponding to Human Slingshot homolog 1/SSH1 aa 1032-1044. expressed in E. Coli. Sequence: SGKPAPENLKSPS  Database link: <a href="#">Q8WYL5</a>   <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a>
<b>Positive control</b>	Human ovarian cancer tissue; HeLa cells.
<b>General notes</b>	This product was previously labelled as Slingshot homolog 1

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.05% Sodium azide Constituent: 99% PBS
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	Purified from tissue culture supernatant.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	6C11G9

Isotype

IgG1

## Applications

Our [Abpromise guarantee](#) covers the use of **ab204945** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/200 - 1/1000.
Flow Cyt		1/200 - 1/400.

## Target

### 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.

### Sequence similarities

Belongs to the protein-tyrosine phosphatase family.  
Contains 1 tyrosine-protein phosphatase domain.

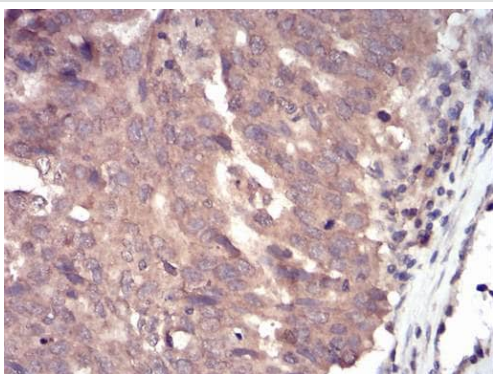
### Post-translational modifications

Phosphorylated. Inhibitory phosphorylation by PAK4 promotes binding to YWHAZ. Phosphorylation at Ser-978 is decreased by stimuli which promote actin reorganization and lamellipodia formation. Can be dephosphorylated and activated by PPP3CA/calcineurin A. Phosphorylation decreases immediately prior to telophase.

### Cellular localization

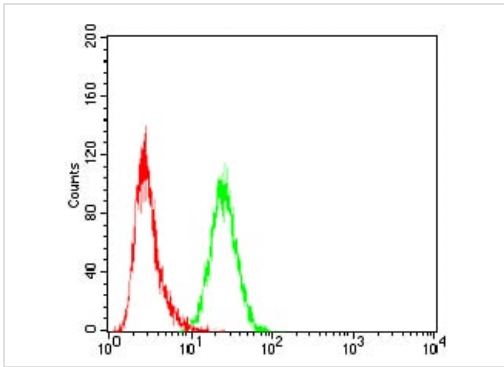
Cytoplasm > cytoskeleton. Cell projection > lamellipodium. Cleavage furrow. Midbody. Also recruited to actin rich membrane protrusions such as lamellipodia, which may allow local control of actin dynamics at sites of cell locomotion. Also localized to the cleavage furrow and the midbody during cytokinesis.

## Images



Immunohistochemical analysis of paraffin-embedded Human ovarian cancer tissue labeling Slingshot homolog 1/SSH1 with ab204945 at 1/200 with DAB staining.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Slingshot homolog 1/SSH1 antibody [6C11G9] (ab204945)



Flow Cytometry - Anti-Slingshot homolog 1/SSH1 antibody [6C11G9] (ab204945)

Flow cytometric analysis of HeLa cells labeling Slingshot homolog 1/SSH1 using ab204945 at 1/200 (green) and negative control (red).

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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