abcam

Product datasheet

Anti-AMSH antibody [EPR4361] ab108301





4 Images

Overview

Product name Anti-AMSH antibody [EPR4361]

Description Rabbit monoclonal [EPR4361] to AMSH

Host species Rabbit

Suitable for: WB **Tested applications**

Reacts with: Human Species reactivity

Predicted to work with: Mouse, Rat

Immunogen Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control WB: Jurkat cell lysate, HeLa cell lysate, HAP1 cell lysate, Raji cell lysate, SW480 cell lysate.

General notes This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility

- Improved sensitivity and specificity - Long-term security of supply

- Animal-free production

For more information see here.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb**® **patents**.

Properties

Form Liquid

Storage instructions Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.

Storage buffer pH: 7.20

Preservative: 0.05% Sodium azide

Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue

culture supernatant

Purity Protein A purified

Clonality Monoclonal Clone number **EPR4361**

Isotype lqG

Applications

The Abpromise guarantee

Our <u>Abpromise guarantee</u> covers the use of ab108301 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
WB		1/1000 - 1/10000. Predicted molecular weight: 48 kDa.

Target

Function	Zinc metalloprotease that specifically cleaves 'Lys-63'-linked polyubiquitin chains. Does not
	cleave 'Lys-48'-linked polyubiquitin chains (By similarity). Functions at the endosome and is able
	to oppose the ubiquitin-dependent sorting of receptors to lysosomes. Plays a role in signal
	transduction for cell growth and MYC induction mediated by IL-2 and GM-CSF. Potentiates BMP
	(bone morphogenetic protein) signaling by antagonizing the inhibitory action of SMAD6 and
	SMAD7.

Tissue specificity Ubiquitously expressed.

Sequence similarities

Belongs to the peptidase M67C family.

Contains 1 MPN (JAB/Mov34) domain.

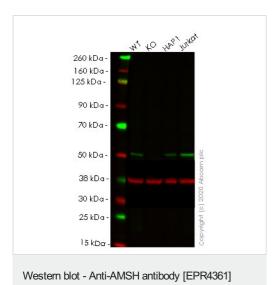
Domain The JAMM motif is essential for the protease activity.

Post translational Phoenhands of the RMR translational recent activities.

Post-translationalPhosphorylated after BMP type I receptor activation.modificationsUbiquitinated by SMURF2 in the presence of RNF11.Cellular localizationNucleus. Membrane. Cytoplasm. Early endosome.

Images

(ab108301)



All lanes: Anti-AMSH antibody [EPR4361] (ab108301) at 1/1000

dilution

Lane 1: Wild-type HeLa lysate

Lane 2: STAM Binding Protein knockout HeLa lysate

Lane 3 : HAP1 lysate
Lane 4 : Jurkat lysate

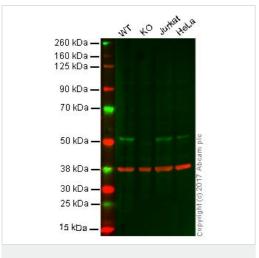
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 48 kDa

Lanes 1-4: Merged signal (red and green). Green - ab108301 observed at 48 kDa. Red - loading control **ab8245** observed at 37 kDa.

ab108301 Anti-STAMBP antibody was shown to specifically react with STAM Binding Protein in wild-type HeLa cells. Loss of signal was observed when knockout cell line ab265249 (knockout cell lysate ab258213) was used. Wild-type and STAM Binding Protein knockout samples were subjected to SDS-PAGE. ab108301 and Anti-GAPDH antibody [6C5] - Loading Control (ab8245) were incubated overnight at 4°C at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit lgG H&L (IRDye® 800CW) preadsorbed (ab216773) and Goat anti-Mouse lgG H&L (IRDye® 680RD) preadsorbed (ab216776) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-AMSH antibody [EPR4361] (ab108301)

All lanes : Anti-AMSH antibody [EPR4361] (ab108301) at 1/1000 dilution

Lane 1: Wild-type HAP1 whole cell lysate

Lane 2: AMSH knockout HAP1 whole cell lysate

Lane 3: Jurkat whole cell lysate

Lane 4: HeLa whole cell lysate

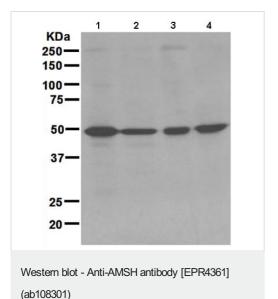
Lysates/proteins at 20 µg per lane.

Predicted band size: 48 kDa

Lanes 1 - 4: Merged signal (red and green). Green - ab108301 observed at 48 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

ab108301 was shown to specifically react with AMSH in wild-type HAP1 cells along with additional cross-reactive bands. No band was observed when AMSH knockout samples were examined. Wild-type and AMSH knockout samples were subjected to SDS-PAGE. Ab108301 and ab9484 (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/10000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed ab216773 and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed

<u>ab216776</u> secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



All lanes : Anti-AMSH antibody [EPR4361] (ab108301) at 1/1000 dilution

Lane 1 : Jurkat cell lysate

Lane 2 : HeLa cell lysate

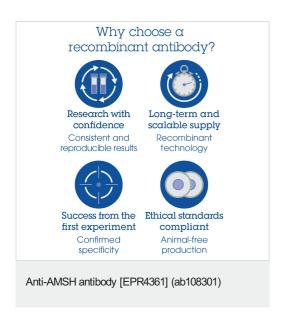
Lane 3: Raji cell lysate

Lane 4: SW480 cell lysate

Lysates/proteins at 10 µg per lane.

Performed under reducing conditions.

Predicted band size: 48 kDa



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