abcam

Product datasheet

Anti-Syntenin antibody ab19903

KO VALIDATED

4 Abreviews 36 References 4 Images

Overview

Product name	Anti-Syntenin antibody
Description	Rabbit polyclonal to Syntenin
Host species	Rabbit
Tested applications	**Suitable for:** ICC/IF, WB
Species reactivity	**Reacts with:** Mouse, Rat, Human **Predicted to work with:** Xenopus laevis, Monkey, Zebrafish
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal

Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab19903 in the following tested applications.

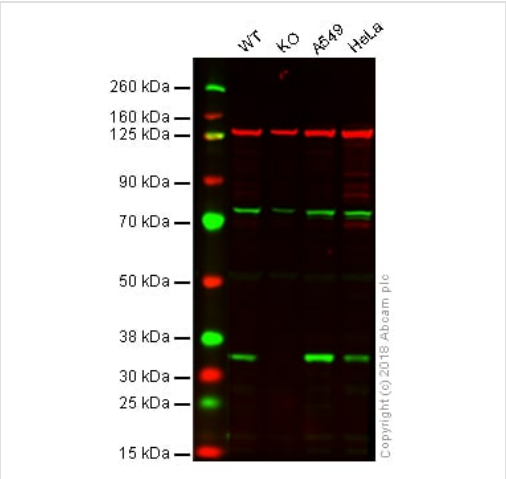
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★☆☆ (1)	Use a concentration of 1 µg/ml.
WB	★★★★☆ (1)	Use a concentration of 1 µg/ml. Detects a band of approximately 32 kDa (predicted molecular weight: 32 kDa).

Target

Function	Seems to function as an adapter protein. In adherens junctions may function to couple syndecans to cytoskeletal proteins or signaling components. Seems to couple transcription factor SOX4 to the IL-5 receptor (IL5RA). May also play a role in vesicular trafficking. Seems to be required for the targeting of TGFA to the cell surface in the early secretory pathway.
Tissue specificity	Widely expressed. Expressed in fetal kidney, liver, lung and brain. In adult highest expression in heart and placenta.
Sequence similarities	Contains 2 PDZ (DHR) domains.
Post-translational modifications	Phosphorylated on tyrosine residues.
Cellular localization	Cell junction > focal adhesion. Cell junction > adherens junction. Cell membrane. Endoplasmic reticulum membrane. Nucleus. Melanosome. Cytoplasm > cytosol. Cytoplasm > cytoskeleton. Mainly membrane-associated. Localized to adherens junctions, focal adhesions and endoplasmic reticulum. Colocalized with actin stress fibers. Also found in the nucleus. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images

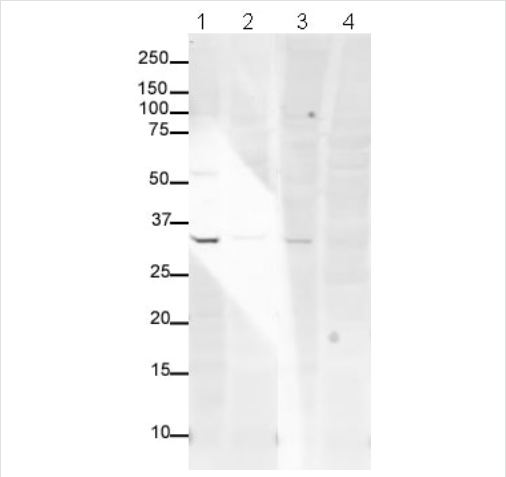


Western blot - Anti-Syntenin antibody (ab19903)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)
Lane 2: Syntenin knockout HAP1 whole cell lysate (20 µg)
Lane 3: A549 whole cell lysate (20 µg)
Lane 4: HeLa whole cell lysate (20 µg)

Lanes 1-4: Merged signal (red and green). Green - ab19903 observed at 32 kDa. Red - loading control, **ab130007**, observed at 130 kDa.

ab19903 was shown to recognize Syntenin in wild-type HAP1 cells as signal was lost at the expected MW in Syntenin knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and Syntenin knockout samples were subjected to SDS-PAGE. ab19903 and **ab130007** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1 µg/ml and 1/20000 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 **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Syntenin antibody (ab19903)

All lanes : Anti-Syntenin antibody (ab19903) at 1 µg/ml

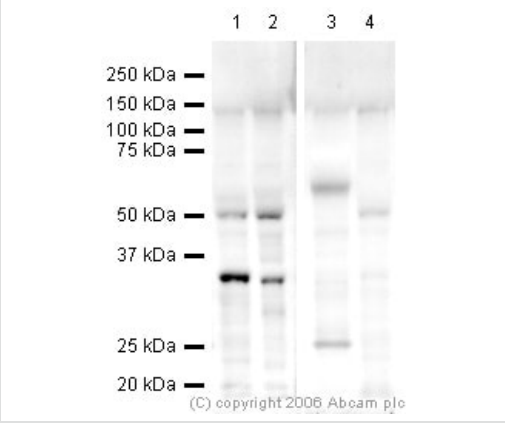
Lane 1 : HEK-293 cell lysate
Lane 2 : Human heart tissue lysate
Lane 3 : HEK-293 cell lysate with Mouse Syntenin peptide (**ab20431**) at 1 µg/ml
Lane 4 : Human heart tissue lysate with Mouse Syntenin peptide (**ab20431**) at 1 µg/ml

Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 32 kDa

ab19903 detects a band of the expected size (32kDa) in HEK-293 cell lysate. This band is partially quenched by the addition of **ab20431**. No band is observed in human heart lysate.



Western blot - Anti-Syntenin antibody (ab19903)

All lanes : Anti-Syntenin antibody (ab19903) at 1 µg/ml

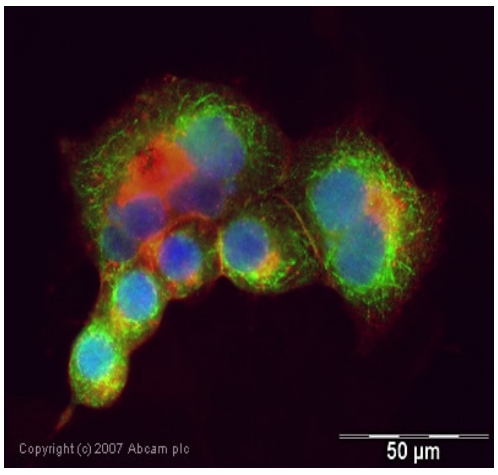
Lane 1 : Mouse heart lysate
Lane 2 : Rat heart lysate
Lane 3 : Mouse heart lysate with Mouse Syntenin peptide (**ab20431**) at 1 µg/ml
Lane 4 : Rat heart lysate with Mouse Syntenin peptide (**ab20431**) at 1 µg/ml

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab6721**) at 1/50000 dilution

Predicted band size: 32 kDa
Observed band size: 32 kDa
Additional bands at: 50 kDa. We are unsure as to the identity of these extra bands.

ab19903 detects a band of the expected size (32kDa) in both mouse and rat heart lysate. This band is quenched completely by the addition of the immunizing peptide in the mouse lysate and is partially quenched by the addition of **ab20431** in the rat heart lysate.



Immunocytochemistry/ Immunofluorescence - Anti-Syntenin antibody (ab19903)

ICC/IF image of ab19903 stained human HEK 293 cells. The cells were PFA fixed (10 min), permabilised in TBS-T (20 min) and incubated with the antibody (ab19903, 1µg/ml) for 1h at room temperature. 1%BSA / 10% normal goat serum / 0.3M glycine was used to quench autofluorescence and block non-specific protein-protein interactions. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red). DAPI was used to stain the cell nuclei (blue).

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

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