abcam

Product datasheet

Anti-SNAP29 antibody [EPR9198(2)] ab181151

KO VALIDATED Recombinant RabMAb

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Overview

Product name	Anti-SNAP29 antibody [EPR9198(2)]
Description	Rabbit monoclonal [EPR9198(2)] to SNAP29
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, ICC/IF, IP
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa, HepG2, 293 and Jurkat whole cell lysates. ICC/IF: HeLa cells. Flow Cyt (intra): Jurkat cells.
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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 59% PBS, 0.05% BSA, 40% Glycerol
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR9198(2)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab181151 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
Flow Cyt (Intra)		1/10. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (1)	1/1000 - 1/10000. Detects a band of approximately 29 kDa (predicted molecular weight: 29 kDa).
ICC/IF		1/100 - 1/250.
IP		1/30 - 1/50.

Target

Function Involved in multiple membrane trafficking steps.

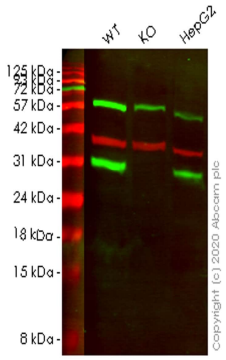
Tissue specificity Found in brain, heart, kidney, liver, lung, placenta, skeletal muscle, spleen and pancreas.

Involvement in disease Defects in SNAP29 are the cause of CEDNIK syndrome (CEDNIK) [MIM:609528]. CEDNIK is a neurocutaneous syndrome characterized by cerebral dysgenesis, neuropathy, ichthyosis and palmoplantar keratoderma.

Sequence similarities Belongs to the SNAP-25 family.
Contains 1 t-SNARE coiled-coil homology domain.

Cellular localization Cytoplasm. Membrane. Cell junction > synapse > synaptosome. Appears to be mostly membrane-bound, probably via interaction with syntaxins, but a significant portion is cytoplasmic.

Images



Western blot - Anti-SNAP29 antibody [EPR9198(2)] (ab181151)

All lanes : Anti-SNAP29 antibody [EPR9198(2)] (ab181151) at 1/1000 dilution

Lane 1 : Wild-type HeLa cell lysate
Lane 2 : SNAP29 knockout HeLa cell lysate
Lane 3 : HepG2 cell lysate

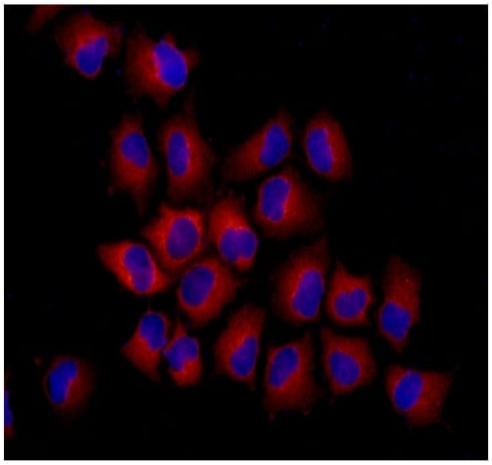
Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 29 kDa
Observed band size: 29 kDa

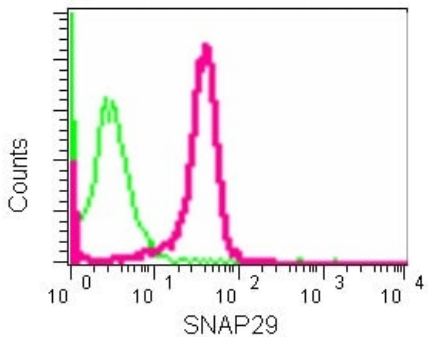
Lanes 1-3: Merged signal (red and green). Green - ab181151 observed at 29 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab181151 Anti-SNAP29 antibody [EPR9198(2)] was shown to specifically react with SNAP29 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265289** (knockout cell lysate **ab257693**) was used. Wild-type and SNAP29 knockout samples were subjected to SDS-PAGE. ab181151 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 IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



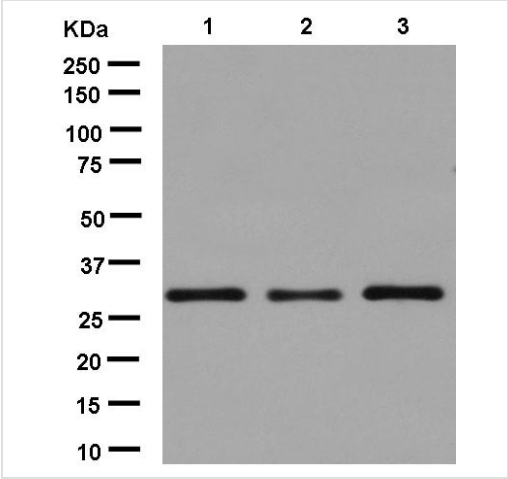
Immunocytochemistry/ Immunofluorescence - Anti-SNAP29 antibody [EPR9198(2)] (ab181151)

Immunofluorescent analysis of -20°C acetone fixed Hela cells staining SNAP29 using ab181151 at 1/250 dilution and Alexa Fluor® 555 stained Goat anti Rabbit IgG at 1/250 as a secondary antibody (red). Dapi counterstain (blue).



Flow Cytometry (Intracellular) - Anti-SNAP29 antibody [EPR9198(2)] (ab181151)

Intracellular flow cytometric analysis of 2% paraformaldehyde fixed Jurkat cells staining SNAP29 using ab181151 at 1/10 dilution, and FITC conjugated Goat anti rabbit IgG at 1/150 as a secondary antibody (red curve). Rabbit monoclonal IgG was used as the negative control (green curve).



Western blot - Anti-SNAP29 antibody [EPR9198(2)] (ab181151)

All lanes : Anti-SNAP29 antibody [EPR9198(2)] (ab181151) at 1/5000 dilution

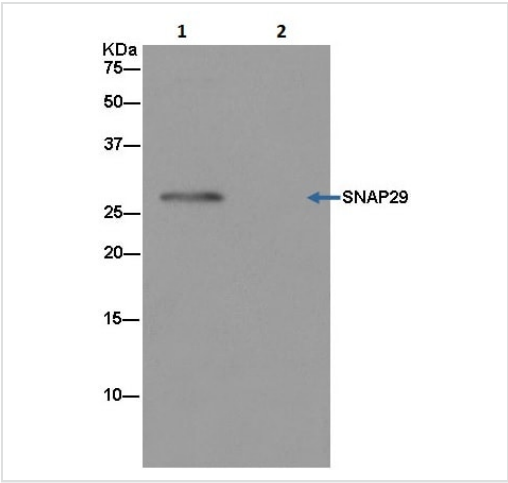
Lane 1 : HeLa cell lysate with NFDM/TBST
Lane 2 : 293 cell lysate with NFDM/TBST
Lane 3 : Jurkat cell lysate with NFDM/TBST

Lysates/proteins at 20 µg per lane.

Blocking peptides at 5 % per lane.

Secondary
All lanes : Peroxidase conjugated Goat anti-Rabbit IgG (H+L) at 1/1000 dilution

Predicted band size: 29 kDa
Observed band size: 29 kDa



Immunoprecipitation - Anti-SNAP29 antibody [EPR9198(2)] (ab181151)

Western blot analysis of SNAP29 in immunoprecipitation pellets from Jurkat cell lysate, using ab181151 at a 1/50 dilution. Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated was used as a secondary antibody at 1/1000 dilution. Blocking/dilution buffer and concentration: 5% NFDM/TBST

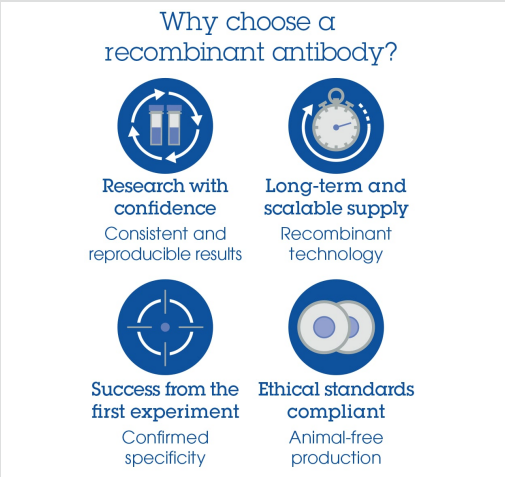
Lane 1 : Anti-SNAP29 antibody [EPR9198(2)] (ab181151) at 1/50 dilution

Lane 1 : Precipitate from Jurkat lysate using ab181151 with NFDM/TBST
Lane 2 : Jurkat lysate with NFDM/TBST

Blocking peptides at 5 % per lane.

Secondary

All lanes : Peroxidase conjugated Goat anti-Rabbit IgG (H+L) at 1/1000 dilution



Anti-SNAP29 antibody [EPR9198(2)] (ab181151)

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