abcam

Product datasheet

Anti-SNAP29 antibody [EPR9199] - BSA and Azide free ab240110

KO VALIDATED Recombinant RabMAb

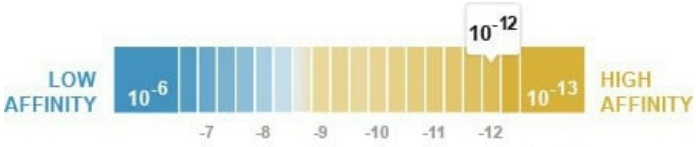
4 Images

Overview

Product name	Anti-SNAP29 antibody [EPR9199] - BSA and Azide free
Description	Rabbit monoclonal [EPR9199] to SNAP29 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP **Unsuitable for:** ICC/IF or IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: HeLa and HepG2 cell lysates. IP: HeLa cell lysate.
General notes	ab240110 is the carrier-free version of **ab138500**. Our **carrier-free** antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency. This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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. Do Not Freeze.
Dissociation constant (K_D)	$K_D = 1.30 \times 10^{-12}$ M



Learn more about K_D

Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR9199
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab240110 in the following tested applications.

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

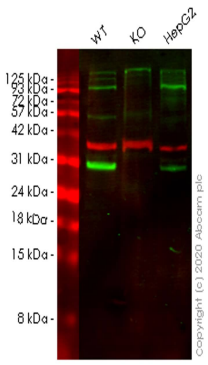
Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 27 kDa.
IP		Use at an assay dependent concentration.

Application notes Is unsuitable for ICC/IF or IHC-P.

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 [EPR9199] - BSA and Azide free (ab240110)

All lanes : Anti-SNAP29 antibody [EPR9199] (**ab138500**) 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.

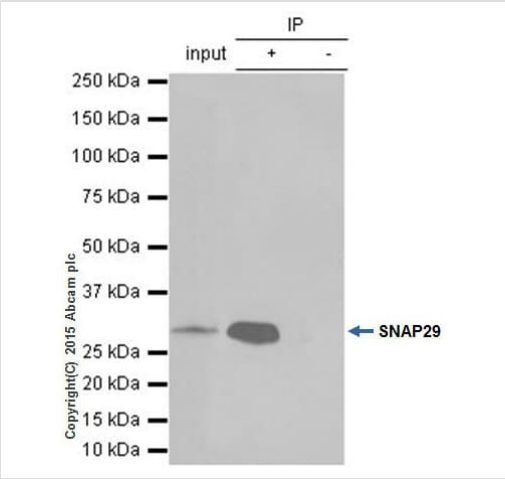
Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

Predicted band size: 27 kDa
Observed band size: 29 kDa

This data was developed using the same antibody clone in a different buffer formulation (**ab138500**).

Lanes 1-3: Merged signal (red and green). Green - **ab138500** observed at 29 kDa. Red - loading control **ab8245** observed at 36 kDa.

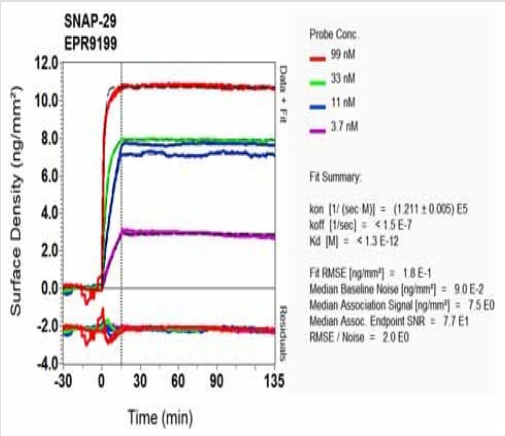
ab138500 Anti-SNAP29 antibody [EPR9199] was shown to specifically react with SNAP29 in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265289** (knockout cell lysate **ab257693**) was used. Wild-type and SNAP29 knockout samples were subjected to SDS-PAGE. **ab138500** and 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.



Immunoprecipitation - Anti-SNAP29 antibody [EPR9199] - BSA and Azide free (ab240110)

ab138500 (purified) at 1/20 immunoprecipitating SNAP29 in 10 µg HeLa cell lysate (Lanes 1 and 2, observed at 29 kDa). Lane 3 - Rabbit monoclonal IgG (**ab172730**). For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/1000 dilution. Blocking buffer and concentration: 5% NFDM/TBST Dilution buffer and concentration: 5% NFDM/TBST

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab138500**).



OI-RD Scanning - Anti-SNAP29 antibody [EPR9199] - BSA and Azide free (ab240110)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D

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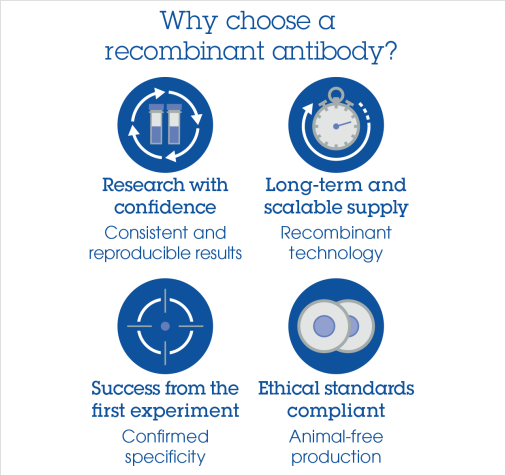

Anti-SNAP29 antibody [EPR9199] - BSA and Azide free (ab240110)

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