abcam

Product datasheet

Anti-VAMP2 antibody [EPR12790] ab181869

Recombinant RabMAb

★★★★★ 1 Abreviews 13 References 13 Images

Overview

Product name	Anti-VAMP2 antibody [EPR12790]
Description	Rabbit monoclonal [EPR12790] to VAMP2
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), WB, ICC/IF, IP
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human fetal brain and Human cerebellum lysates ICC/IF: SH-SY5Y 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: 40% Glycerol, 0.05% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR12790
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab181869 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)		1/100. For unpurified use at 1/150. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB	★★★★★ (1)	1/10000 - 1/50000. Detects a band of approximately 18 kDa (predicted molecular weight: 13 kDa).
ICC/IF		1/250. **For unpurified use at 1/500.**
IP		1/150. **For unpurified use at 1/70.**

Target

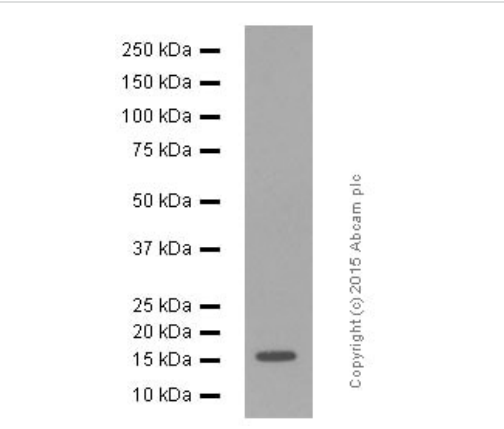
Function Involved in the targeting and/or fusion of transport vesicles to their target membrane.

Tissue specificity Nervous system and skeletal muscle.

Sequence similarities Belongs to the synaptobrevin family.
Contains 1 v-SNARE coiled-coil homology domain.

Cellular localization Cytoplasmic vesicle > secretory vesicle > synaptic vesicle membrane. Cell junction > synapse > synaptosome. Neuronal synaptic vesicles.

Images



Western blot - Anti-VAMP2 antibody [EPR12790] (ab181869)

Anti-VAMP2 antibody [EPR12790] (ab181869) at 1/10000 dilution (purified) + Rat heart lysate at 10 µg

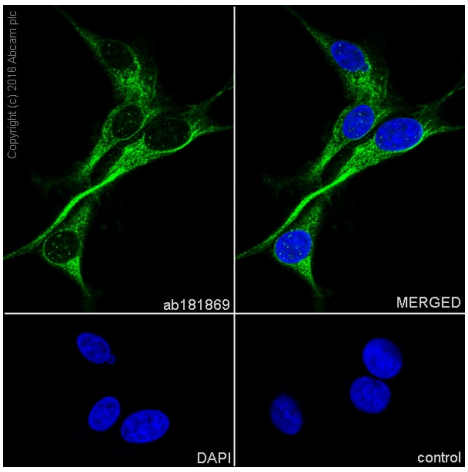
Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 13 kDa

Blocking buffer and concentration: 5% NFDM/TBST.

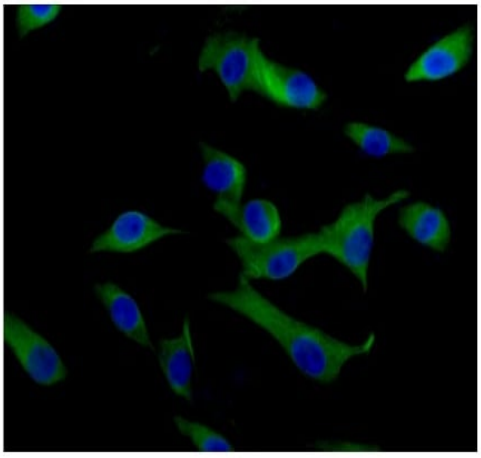
Diluting buffer and concentration: 5% NFDM /TBST.



Immunocytochemistry/ Immunofluorescence - Anti-VAMP2 antibody [EPR12790] (ab181869)

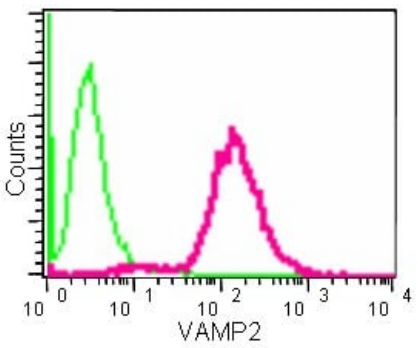
ab181869 staining VAMP2 in U87-MG (human glioblastoma) cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with 100% methanol. Samples were incubated with primary antibody at a dilution of 1/500. A goat anti rabbit IgG (Alexa Fluor® 488) (**ab150077**) was used as the secondary antibody at a dilution of 1/1000. DAPI was used as a nuclear counterstain.

Negative control 1:PBS only.



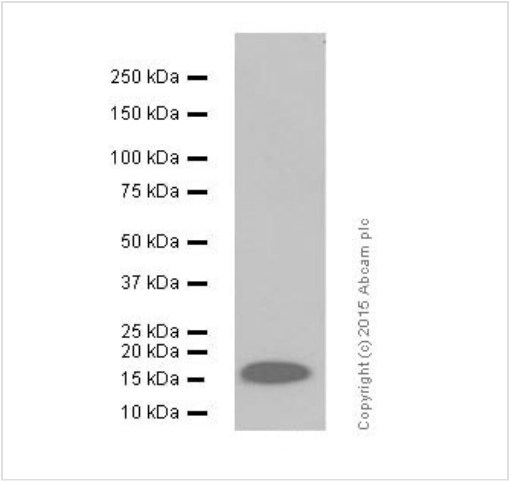
Immunocytochemistry/ Immunofluorescence - Anti-VAMP2 antibody [EPR12790] (ab181869)

Immunofluorescent analysis of U87-MG cells (4% paraformaldehyde-fixed) labeling VAMP2 with ab181869 at 1/500 dilution followed by Goat anti rabbit IgG (Alexa Fluor®488) at 1/200 dilution and counterstained with Dapi.



Flow Cytometry (Intracellular) - Anti-VAMP2 antibody [EPR12790] (ab181869)

Intracellular Flow Cytometry analysis of Jurkat cells fixed with 2% paraformaldehyde labeling VAMP2 with unpurified ab181869 at 1/150 dilution followed by Goat anti rabbit IgG (FITC) at 1/150 dilution. Rabbit monoclonal IgG was used as an isotype control.



Western blot - Anti-VAMP2 antibody [EPR12790] (ab181869)

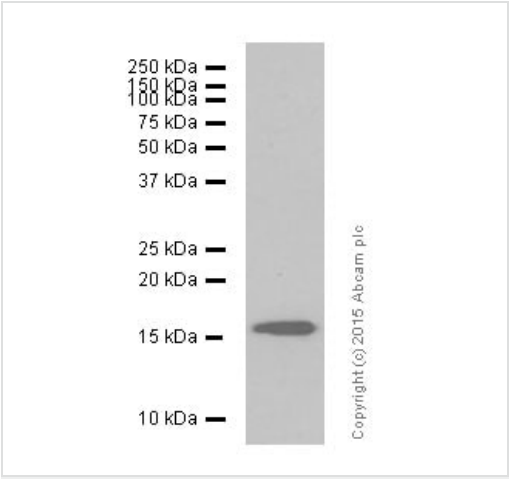
Anti-VAMP2 antibody [EPR12790] (ab181869) at 1/50000 dilution (purified) + Mouse brain lysate at 10 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution (Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

Predicted band size: 13 kDa

Blocking buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-VAMP2 antibody [EPR12790] (ab181869)

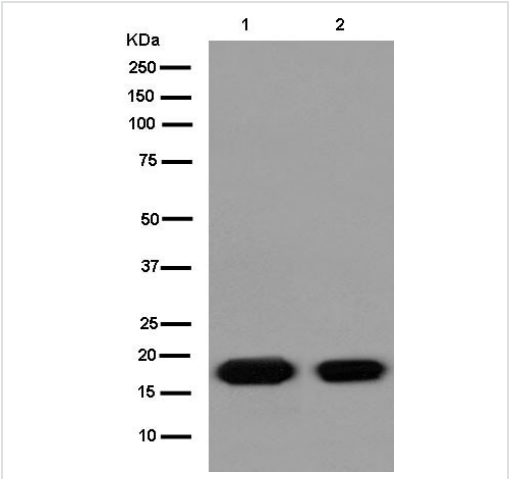
Anti-VAMP2 antibody [EPR12790] (ab181869) at 1/50000 dilution (purified) + Human cerebellum lysate at 10 µg

Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/10000 dilution

Predicted band size: 13 kDa

Blocking buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-VAMP2 antibody [EPR12790] (ab181869)

All lanes : Anti-VAMP2 antibody [EPR12790] (ab181869) at 1/50000 dilution (unpurified)

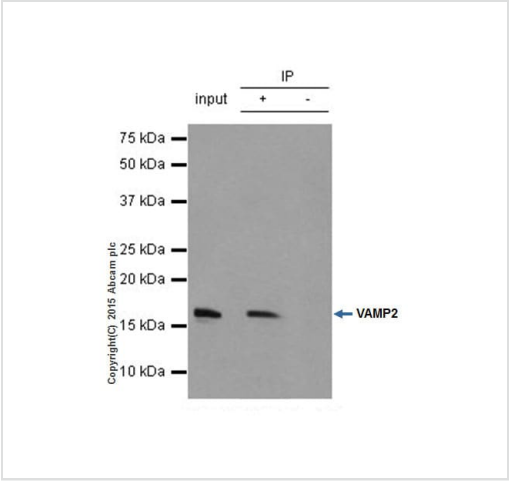
Lane 1 : Human fetal brain lysate
Lane 2 : Human cerebellum lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution

Predicted band size: 13 kDa

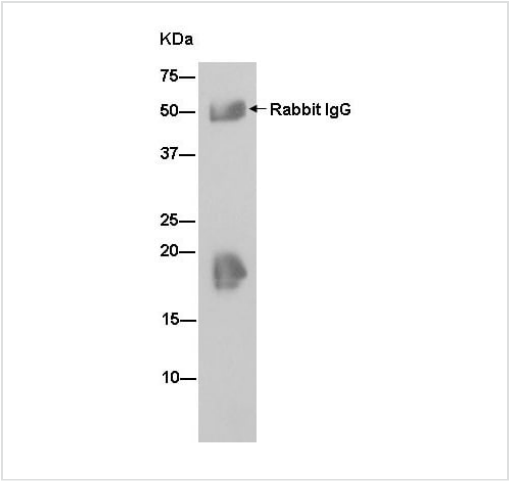


Immunoprecipitation - Anti-VAMP2 antibody [EPR12790] (ab181869)

ab181869 (purified) at 1/150 immunoprecipitating VAMP2 in Human cerebellum whole cell lysate. 10 ug of cell lysate was present in the input. For western blotting, a HRP-conjugated Veriblot for IP Detection Reagent (**ab131366**) (1/1,500) was used for detection. A rabbit monoclonal IgG (**ab172730**) was used intead of **ab128913** as a negative control (Lane 3).

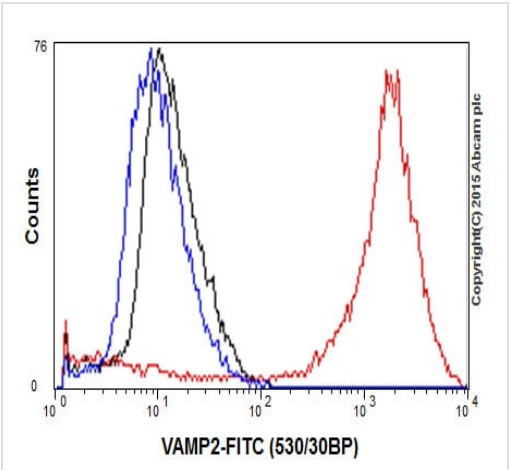
Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



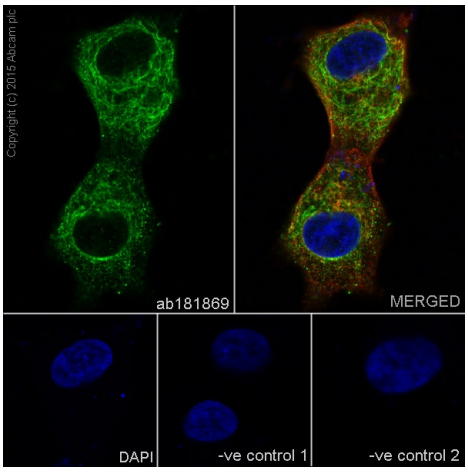
Immunoprecipitation - Anti-VAMP2 antibody [EPR12790] (ab181869)

Western blot analysis of immunoprecipitation pellet from Human cerebellum lysate immunoprecipitated using ab181869 at 1/70 dilution.
Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugate at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-VAMP2 antibody [EPR12790] (ab181869)

Intracellular Flow Cytometry analysis of SH-SY5Y cells labelling VAMP2 with purified ab181869 at 1/100 (red). Cells were fixed with 4% paraformaldehyde. A FITC-conjugated goat anti-rabbit IgG (1/500) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.

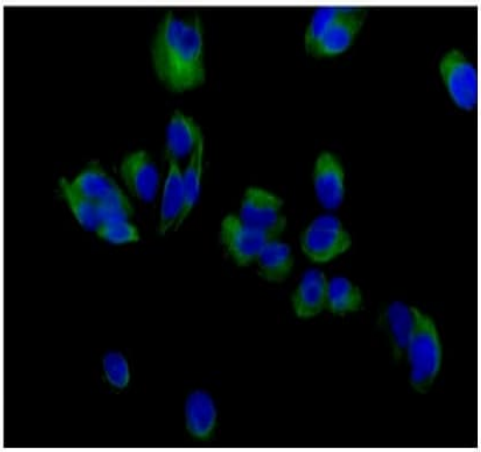


Immunocytochemistry/ Immunofluorescence - Anti-VAMP2 antibody [EPR12790] (ab181869)

Immunocytochemistry/Immunofluorescence analysis of U87-MG (human glioblastoma) cells labelling VAMP2 with purified ab181869 at 1/250. Cells were fixed with 100% methanol and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. **ab7291**, a mouse anti-tubulin (1/1000) and **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000) were also used.

Control 1: primary antibody (1/100) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/500).

Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/500).



Immunocytochemistry/ Immunofluorescence - Anti-VAMP2 antibody [EPR12790] (ab181869)

Immunofluorescent analysis of SH-SYSY cells (human cell line) (4% paraformaldehyde-fixed) labeling VAMP2 with unpurified ab181869 at 1/500 dilution followed by Goat anti rabbit IgG (Alexa Fluor®488) at 1/200 dilution and counterstained with DAPI.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors