

Product datasheet

Anti-SNAP25 antibody ab31281

★★★★★ 1 Abreviews 1 References 5 Images

Overview

| | |
|----------------------------|--|
| Product name | Anti-SNAP25 antibody |
| Description | Goat polyclonal to SNAP25 |
| Host species | Goat |
| Specificity | This antibody is expected to recognise both reported isoforms NP_003072.2 (SNAP25A) and NP_570824.1 (SNAP25B). Reported variants represent identical protein: NP_001309831.1, NP_003072.2 Reported variants represent identical protein: NP_001309834.1, NP_001309832.1, NP_001309833.1, NP_001309839.1, NP_001309836.1, NP_570824.1, NP_001309838.1, NP_001309835.1, NP_001309837.1 |
| Tested applications | Suitable for: IHC-P, WB, ICC/IF |
| Species reactivity | Reacts with: Mouse, Rat, Human Predicted to work with: Dog ▲ |
| Immunogen | Synthetic peptide corresponding to Human SNAP25 aa 193-206 (C terminal). Sequence: C-DEANQRATKMLGSG Run BLAST with Run BLAST with |
| Positive control | WB: Recombinant Human SNAP25 protein (ab51048), Human brain (cerebellum) and mouse brain tissue lysates. ICC/IF: SKNSH cells. IHC-P: Human cerebral cortex tissue. |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles. |
| Storage buffer | pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 99% Tris buffered saline, 0.5% BSA |
| Purity | Immunogen affinity purified |
| Purification notes | Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide. |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab31281** 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 |
|-------------|-----------|---|
| IHC-P | | Use a concentration of 1 - 2 µg/ml. |
| WB | ★★★★★ | Use a concentration of 0.03 - 0.1 µg/ml. Detects a band of approximately 26 kDa (predicted molecular weight: 23 kDa). |
| ICC/IF | | Use a concentration of 5 µg/ml. |

Target

Function

t-SNARE involved in the molecular regulation of neurotransmitter release. May play an important role in the synaptic function of specific neuronal systems. Associates with proteins involved in vesicle docking and membrane fusion. Regulates plasma membrane recycling through its interaction with CENPF.

Tissue specificity

Neurons of the neocortex, hippocampus, piriform cortex, anterior thalamic nuclei, pontine nuclei, and granule cells of the cerebellum.

Sequence similarities

Belongs to the SNAP-25 family.
Contains 2 t-SNARE coiled-coil homology domains.

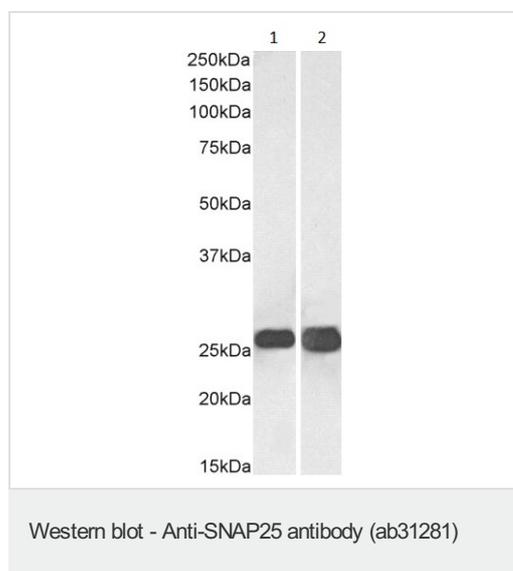
Post-translational modifications

Palmitoylated. Cys-85 appears to be the main site, and palmitoylation is required for membrane association.

Cellular localization

Cytoplasm > perinuclear region. Cell membrane. Cell junction > synapse > synaptosome.
Membrane association requires palmitoylation. Expressed throughout cytoplasm, concentrating at the perinuclear region.

Images



All lanes : Anti-SNAP25 antibody (ab31281) at 0.03 µg/ml

Lane 1 : Human brain (cerebellum) tissue lysate in RIPA buffer

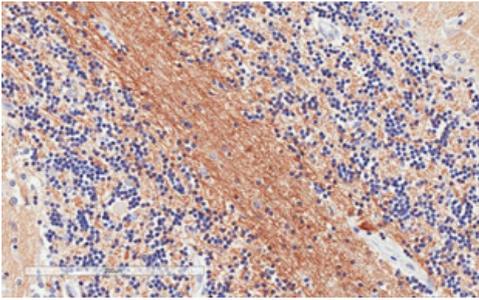
Lane 2 : Mouse brain tissue lysate in RIPA buffer

Lysates/proteins at 35 µg per lane.

Developed using the ECL technique.

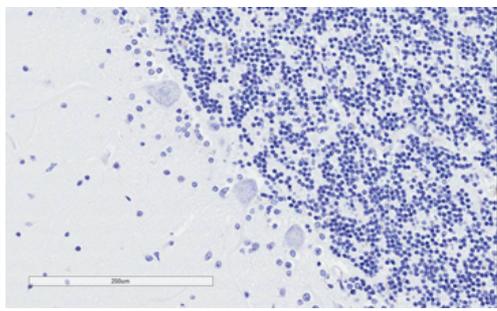
Predicted band size: 23 kDa

Incubated with the primary antibody for 1 hour.



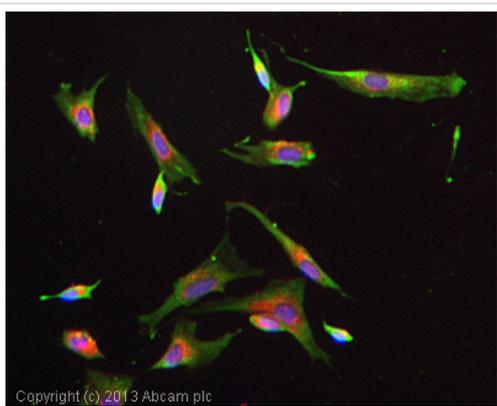
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SNAP25 antibody (ab31281)

ab31281 (1 µg/ml) staining of SNAP25 in paraffin embedded Human Cerebellum. Microwaved antigen retrieval with citrate buffer Ph 6, HRP-staining.



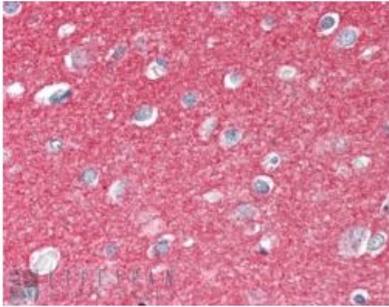
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SNAP25 antibody (ab31281)

ab31281 negative control showing staining of paraffin embedded Human Cerebellum, with no primary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-SNAP25 antibody (ab31281)

ICC/IF image of ab31281 stained SKNSH cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal donkey serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab31281 at 5 µg/ml overnight at +4°C. The secondary antibody (green) was DyLight[®] 488 donkey anti- goat (ab96931) IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor[®] 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43 µM.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SNAP25 antibody (ab31281)

ab31281 at 2.5 μ g/ml staining SNAP25 in human cerebral cortex tissue section by Immunohistochemistry (Formalin/ PFA fixed paraffin-embedded sections). Tissue underwent antigen retrieval in steam with citrate buffer (pH 6.0). The AP-staining procedure was used for detection.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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