abcam

Product datasheet

# Anti-SNAP25 antibody [EPR3275] - BSA and Azide free ab171355

KO VALIDATED Recombinant RabMAb

6 Images

## Overview

| | |
|---|---|
| **Product name** | Anti-SNAP25 antibody [EPR3275] - BSA and Azide free |
| **Description** | Rabbit monoclonal [EPR3275] to SNAP25 - BSA and Azide free |
| **Host species** | Rabbit |
| **Tested applications** | **Suitable for:** Flow Cyt (Intra), WB, ICC/IF |
| **Species reactivity** | **Reacts with:** Mouse, Rat, Human |
| **Immunogen** | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| **Positive control** | WB: Human brain, Neuro 2a, mouse brain, mouse hippocampus, rat brain, rat hippocampus cell lysates. ICC/IF: Neuro-2a(Mouse neuroblastoma neuroblast) |
| **General notes** | ab171355 is the carrier-free version of **ab109105**.<br><br>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.<br><br>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.<br><br>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.<br><br>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.<br><br>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. |

## Properties

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| **Form** | Liquid |
| **Storage instructions** | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| **Storage buffer** | Constituent: PBS |
| **Carrier free** | Yes |
| **Purity** | Protein A purified |
| **Clonality** | Monoclonal |
| **Clone number** | EPR3275 |
| **Isotype** | IgG |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab171355 in the following tested applications.

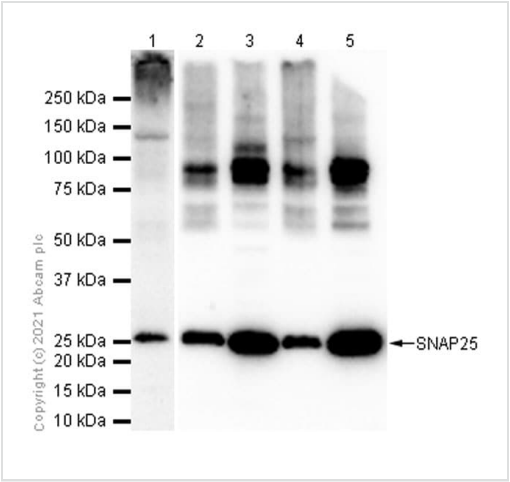
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

| Application | Abreviews | Notes |
|---|---|---|
| **Flow Cyt (Intra)** | | Use at an assay dependent concentration.<br>**ab199376**-Rabbit monoclonal IgG (Low endotoxin, Azide free), is suitable for use as an isotype control with this antibody. |
| **WB** | | Use at an assay dependent concentration. Predicted molecular weight: 23 kDa. Can be blocked with **ab183131** |
| **ICC/IF** | | Use at an assay dependent concentration. |

## 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.<br>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




Western blot - Anti-SNAP25 antibody [EPR3275] - BSA and Azide free (ab171355)

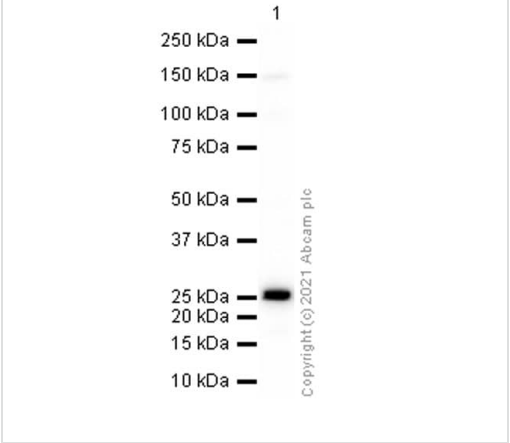
**All lanes :** Anti-SNAP25 antibody [EPR3275] (**ab109105**) at 1/1000 dilution (Purified)

**Lane 1 :** Neuro-2a (Mouse neuroblastoma neuroblast) whole cell lysate
**Lane 2 :** Mouse brain lysate
**Lane 3 :** Mouse hippocampus lysate
**Lane 4 :** Rat brain lysate
**Lane 5 :** Rat hippocampus lysate

**Secondary**
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

**Predicted band size:** 23 kDa
**Observed band size:** 25 kDa

This data was developed using **ab109105**, the same antibody clone in a different buffer formulation.



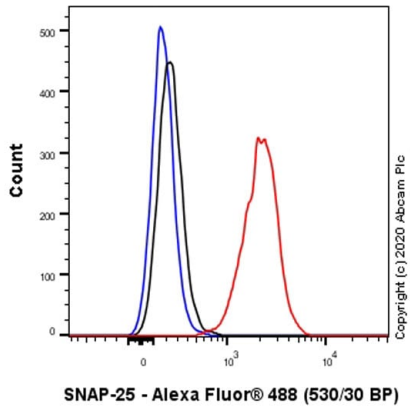

Western blot - Anti-SNAP25 antibody [EPR3275] - BSA and Azide free (ab171355)

Anti-SNAP25 antibody [EPR3275] (**ab109105**) at 1/1000 dilution (Purified) + Human brain lysate

**Secondary**
Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

**Predicted band size:** 23 kDa
**Observed band size:** 25 kDa

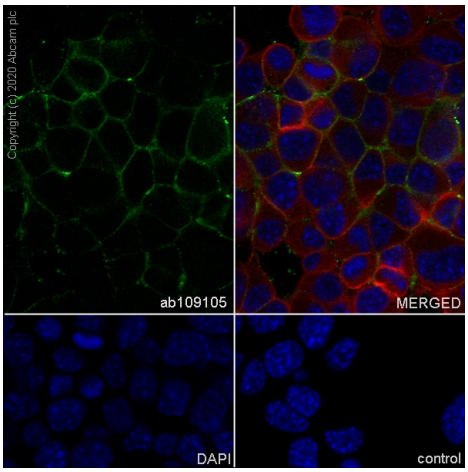
This data was developed using **ab109105**, the same antibody clone in a different buffer formulation.




Flow Cytometry (Intracellular) - Anti-SNAP25 antibody [EPR3275] - BSA and Azide free (ab171355)

Flow Cytometry analysis of Neuro-2a(Mouse neuroblastoma neuroblast) cells labelling SNAP25 with Purified **ab109105** at 1:200 dilution (10 µg/ml) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor™ 488, **ab150077**) secondary antibody was used at 1:2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabelled control - Cell without incubation with primary antibody and secondary antibody (Blue).

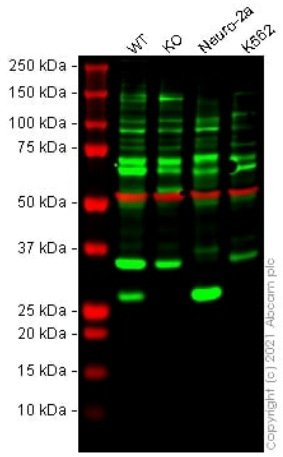
This data was developed using **ab109105**, the same antibody clone in a different buffer formulation.




Immunocytochemistry/ Immunofluorescence - Anti-SNAP25 antibody [EPR3275] - BSA and Azide free (ab171355)

Immunocytochemistry analysis of Neuro-2a(Mouse neuroblastoma neuroblast) cells labeling SNAP25 with Purified **ab109105** at 1/250 dilution (8.9 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% tritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.

This data was developed using **ab109105**, the same antibody clone in a different buffer formulation.




Western blot - Anti-SNAP25 antibody [EPR3275] - BSA and Azide free (ab171355)

Anti-SNAP25 antibody [EPR3275] (**ab109105**) at 1/1000 dilution + Neuro-2a cell lysate at 20 µg

Performed under reducing conditions.

**Predicted band size:** 23 kDa
**Observed band size:** 27 kDa

False colour image of Western blot: Anti-SNAP25 antibody [EPR3275] staining at 1/1000 dilution, shown in green; loading control **ab7291** (Mouse anti-Alpha Tubulin [DM1A]) staining at 1/20000 dilution, shown in red. In Western blot, **ab109105** was shown to bind specifically to SNAP25. A band was observed at 27 kDa in wild-type SH-SY5Y cell lysates with no signal observed at this size in SNAP25 knockout cell line **ab280041** (knockout cell lysate **ab280100**). To generate this image, wild-type and SNAP25 knockout SH-SY5Y cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween® 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed (**ab216776**) at 1/20000 dilution.

This data was developed using **ab109105**, the same antibody clone in a different buffer formulation.


Anti-SNAP25 antibody [EPR3275] - BSA and Azide free (ab171355)

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

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