

## Product datasheet

# Anti-SNAP25 antibody [EPR3275] ab109105

**KO VALIDATED** Recombinant RabMAB

★★★★★ [3 Abreviews](#) [19 References](#) [6 Images](#)

### Overview

<b>Product name</b>	Anti-SNAP25 antibody [EPR3275]
<b>Description</b>	Rabbit monoclonal [EPR3275] to SNAP25
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> Flow Cyt (Intra), WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Human brain, Neuro 2a, mouse brain, mouse hippocampus, rat brain, rat hippocampus cell lysates. ICC/IF: Neuro-2a(Mouse neuroblastoma neuroblast)
<b>General notes</b>	<p>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.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAB<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAB<sup>®</sup> patents</a>.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
<b>Purity</b>	Protein A purified

<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR3275
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab109105 in the following tested applications.

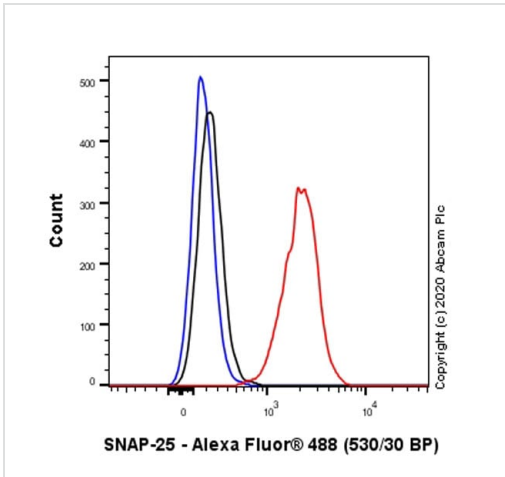
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt (Intra)		1/200.
WB	★★★★★ (3)	1/1000. Predicted molecular weight: 23 kDa.
ICC/IF		1/250.

## Target

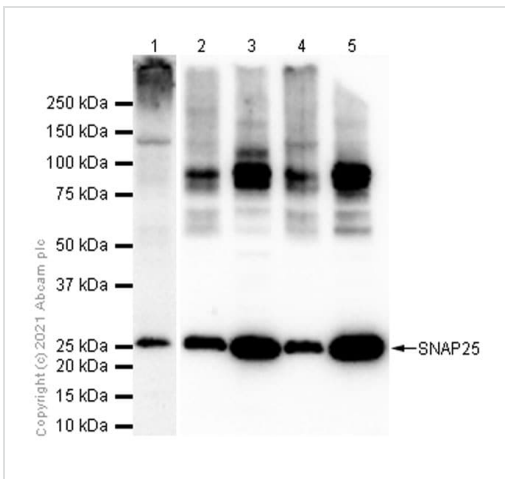
<b>Function</b>	t-SNARE involved in the molecular regulation of neurotransmitter release. May play an important role in the synaptic function of specific neuronal systems. Associates with proteins involved in vesicle docking and membrane fusion. Regulates plasma membrane recycling through its interaction with CENPF.
<b>Tissue specificity</b>	Neurons of the neocortex, hippocampus, piriform cortex, anterior thalamic nuclei, pontine nuclei, and granule cells of the cerebellum.
<b>Sequence similarities</b>	Belongs to the SNAP-25 family. Contains 2 t-SNARE coiled-coil homology domains.
<b>Post-translational modifications</b>	Palmitoylated. Cys-85 appears to be the main site, and palmitoylation is required for membrane association.
<b>Cellular localization</b>	Cytoplasm > perinuclear region. Cell membrane. Cell junction > synapse > synaptosome. Membrane association requires palmitoylation. Expressed throughout cytoplasm, concentrating at the perinuclear region.

## Images



Flow Cytometry (Intracellular) - Anti-SNAP25 antibody [EPR3275] (ab109105)

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).



Western blot - Anti-SNAP25 antibody [EPR3275] (ab109105)

**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



Western blot - Anti-SNAP25 antibody [EPR3275] (ab109105)

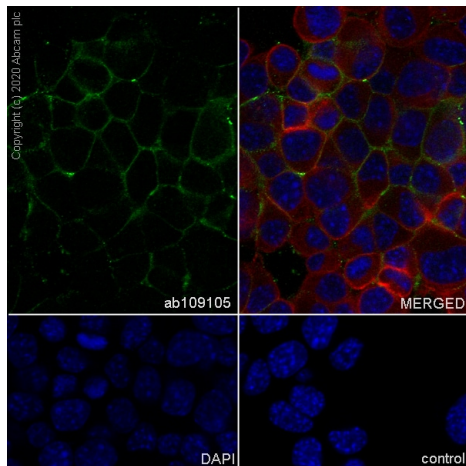
Anti-SNAP25 antibody [EPR3275] (ab109105) at 1/1000 dilution (Purified) + Human brain lysate

**Secondary**

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

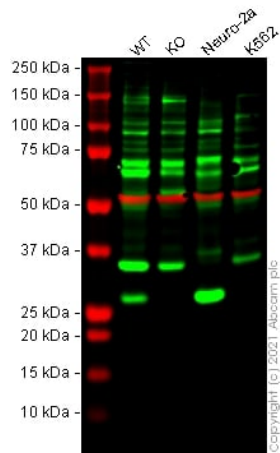
**Predicted band size:** 23 kDa

**Observed band size:** 25 kDa



Immunocytochemistry/ Immunofluorescence - Anti-SNAP25 antibody [EPR3275] (ab109105)

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.



Western blot - Anti-SNAP25 antibody [EPR3275]  
(ab109105)

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

**Lane 1** : Wild-type SH-SY5Y cell lysate

**Lane 2** : SNAP25 knockout SH-SY5Y cell lysate

**Lane 3** : Neuro-2a cell lysate

**Lane 4** : K562 cell lysate

Lysates/proteins at 20 µg per lane.

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<sup>®</sup> 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<sup>®</sup> 800CW) preabsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye<sup>®</sup> 680RD) preabsorbed (**ab216776**) at 1/20000 dilution.

Why choose a recombinant antibody?

**Research with confidence**  
Consistent and reproducible results

**Long-term and scalable supply**  
Recombinant technology

**Success from the first experiment**  
Confirmed specificity

**Ethical standards compliant**  
Animal-free production

Anti-SNAP25 antibody [EPR3275] (ab109105)

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

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