abcam

Product datasheet

Anti-SNAP25 antibody [EP3274] ab108990





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Overview

Product name Anti-SNAP25 antibody [EP3274]

Description Rabbit monoclonal [EP3274] to SNAP25

Host species Rabbit

Tested applications Suitable for: WB, IHC-P

Unsuitable for: Flow Cyt or IP

Species reactivity Reacts with: Mouse, Rat, Human

Immunogen Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

Positive control Fetal brain, HeLa, SH-SY5Y, U87-MG, fetal hippocampus, fetal cerebellum, and Neuro-2a cell

lysates; Human brain tissue; Human cerebellum tissue, mouse and rat brain tissue lysate.

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.

Stable for 12 months at -20°C.

Storage buffer pH: 7.20

Preservative: 0.05% Sodium azide

Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue

culture supernatant

Purity Protein A purified

Clonality Monoclonal Clone number EP3274

Isotype IgG

Applications

The Abpromise guarantee

Our <u>Abpromise guarantee</u> covers the use of ab108990 in the following tested applications.

Membrane association requires palmitoylation. Expressed throughout cytoplasm, concentrating at

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

Application	Abreviews	Notes
WB		1/1000 - 1/10000. Detects a band of approximately 25 kDa (predicted molecular weight: 23 kDa).
IHC-P	★★★★★ (2)	1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Antigen retrieval is recommended.

Application notes

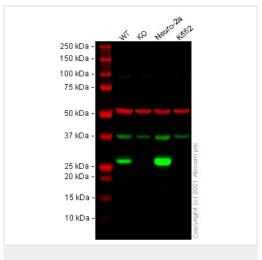
Is unsuitable for Flow Cyt or IP.

the perinuclear region.

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.	

Images



Western blot - Anti-SNAP25 antibody [EP3274] (ab108990)

All lanes: Anti-SNAP25 antibody [EP3274] (ab108990) 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

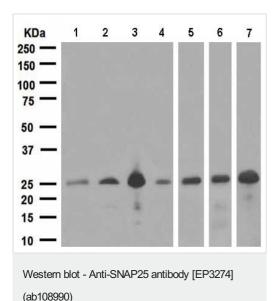
Lane 4: K562 cell lysate

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 [EP3274] 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, ab108990 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.



All lanes : Anti-SNAP25 antibody [EP3274] (ab108990) at 1/1000 dilution

Lane 1 : Fetal brain lysate
Lane 2 : HeLa cell lysate
Lane 3 : SH-SY5Y cell lysate

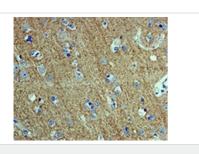
Lane 4: U87-MG cell lysate

Lane 5 : Fetal hippocampus lysate
Lane 6 : Fetal cerebellum lysate

Lane 7: Neuro-2a cell lysate

Lysates/proteins at 10 µg per lane.

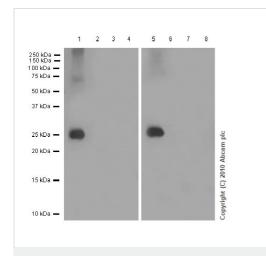
Predicted band size: 23 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-SNAP25 antibody
[EP3274] (ab108990)

ab108990, at 1/100 dilution, staining SNAP25 in paraffinembedded Human brain tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Western blot - Anti-SNAP25 antibody [EP3274] (ab108990)

All lanes : Anti-SNAP25 antibody [EP3274] (ab108990) at 1/2000 dilution

Lane 1 : Mouse brain tissue lysate

Lane 2 : Mouse heart tissue lysate

Lane 3 : Mouse kidney tissue lysate

Lane 4: Mouse spleen tissue lysate

Lane 5: Rat brain tissue lysate
Lane 6: Rat heart tissue lysate
Lane 7: Rat kidney tissue lysate
Lane 8: Rat spleen tissue lysate

Lysates/proteins at 20 µg per lane.

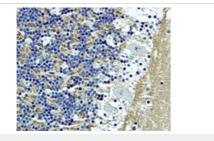
Secondary

All lanes: Goat Anti-Rabbit lgG H&L (HRP) (ab97051) (Goat Anti-

Rabbit IgG, (H+L), Peroxidase conjugated)

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

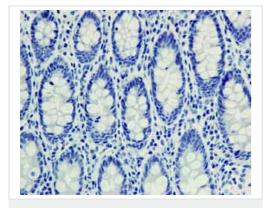
Blocking/Diluting buffer and concentration: 5% NFDM /TBST



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-SNAP25 antibody
[EP3274] (ab108990)

ab108990, at 1/100 dilution, staining SNAP25 in paraffinembedded Human cerebellum tissue by Immunohistochemistry.

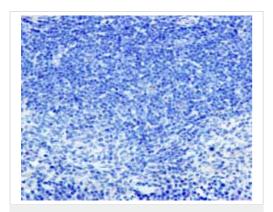
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-SNAP25 antibody
[EP3274] (ab108990)

ab108990 showing negative staining in human Normal colon tissue.

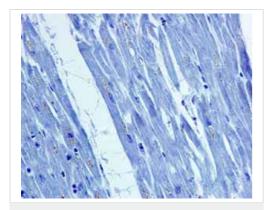
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-SNAP25 antibody
[EP3274] (ab108990)

ab108990 showing negative staining in human Normal spleen tissue.

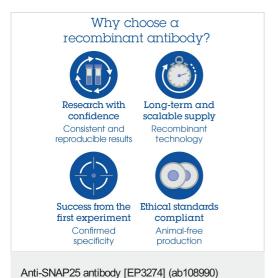
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-SNAP25 antibody
[EP3274] (ab108990)

ab108990 showing negative staining in human Skeletal muscle tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



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