## Overview

<table>
<thead>
<tr>
<th>Product name</th>
<th>Anti-SNAP25 antibody [EP3274]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Description</td>
<td>Rabbit monoclonal [EP3274] to SNAP25</td>
</tr>
<tr>
<td>Host species</td>
<td>Rabbit</td>
</tr>
<tr>
<td>Tested applications</td>
<td>Suitable for: WB, IHC-P, ICC</td>
</tr>
<tr>
<td></td>
<td>Unsuitable for: Flow Cyt or IP</td>
</tr>
<tr>
<td>Species reactivity</td>
<td>Reacts with: Mouse, Rat, Human</td>
</tr>
<tr>
<td>Immunogen</td>
<td>Synthetic peptide (the amino acid sequence is considered to be commercially sensitive) (internal sequence)</td>
</tr>
<tr>
<td>Positive control</td>
<td>Fetal brain, HeLa, SH-SY5Y, U87-MG, fetal hippocampus, fetal cerebellum, and Neuro-2a cell lysates; Human brain tissue; Human cerebellum tissue.</td>
</tr>
<tr>
<td>General notes</td>
<td>Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents. This product is a recombinant rabbit monoclonal antibody.</td>
</tr>
</tbody>
</table>

## Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Storage instructions</td>
<td>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.</td>
</tr>
<tr>
<td>Storage buffer</td>
<td>pH: 7.20</td>
</tr>
<tr>
<td></td>
<td>Preservative: 0.05% Sodium azide</td>
</tr>
<tr>
<td></td>
<td>Constituents: 0.1% BSA, 40% Glycerol, 9.85% Tris glycine, 50% Tissue culture supernatant</td>
</tr>
<tr>
<td>Purity</td>
<td>Tissue culture supernatant</td>
</tr>
<tr>
<td>Clonality</td>
<td>Monoclonal</td>
</tr>
<tr>
<td>Clone number</td>
<td>EP3274</td>
</tr>
<tr>
<td>Isotype</td>
<td>IgG</td>
</tr>
</tbody>
</table>

## Applications
Application notes

Our Abpromise guarantee covers the use of ab108990 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

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


Images

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

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-SNAP25 antibody [EP3274] (ab108990)

ab108990, at 1/100 dilution, staining SNAP25 in paraffin-embedded Human cerebellum 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 1/1000 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

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 paraffin-embedded sections) - Anti-SNAP25 antibody (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 paraffin-embedded sections) - Anti-SNAP25 antibody (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.

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