Product datasheet

Anti-Synaptophysin antibody [EP1098Y] ab52636

Recombinant RabMab

Overview

Product name
Anti-Synaptophysin antibody [EP1098Y]

Description
Rabbit monoclonal [EP1098Y] to Synaptophysin

Host species
Rabbit

Tested applications
Suitable for: IHC-P, WB, IP, Flow Cyt, ICC/IF

Species reactivity
Reacts with: Mouse, Rat, Human

Immunogen
Synthetic peptide within Human Synaptophysin aa 200-300. The exact sequence is proprietary.

Positive control
Rat brain membrane. Human medulloblastoma. PC12 cells.

General notes
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.

Properties

Form
Liquid

Storage instructions
Shipped at 4°C. 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, 9.85% Tris glycine, 50% Tissue culture supernatant

Purity
Tissue culture supernatant

Clonality
Monoclonal

Clone number
EP1098Y

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab52636 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
## Function
Possibly involved in structural functions as organizing other membrane components or in targeting the vesicles to the plasma membrane. Involved in the regulation of short-term and long-term synaptic plasticity.

## Tissue specificity
Characteristic of a type of small (30-80 nm) neurosecretory vesicles, including presynaptic vesicles, but also vesicles of various neuroendocrine cells of both neuronal and epithelial phenotype.

## Involvement in disease
Mental retardation, X-linked, SYP-related

## Sequence similarities
Belongs to the synaptophysin/synaptobrevin family. Contains 1 MARVEL domain.

## Domain
The calcium-binding activity is thought to be localized in the cytoplasmic tail of the protein.

## Post-translational modifications
Ubiquitinated; mediated by SIAH1 or SIAH2 and leading to its subsequent proteasomal degradation.

## Cellular localization

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>IHC-P</td>
<td></td>
<td>Use at an assay dependent concentration.</td>
</tr>
<tr>
<td>WB</td>
<td>★★★★★</td>
<td>1/1000 - 1/10000. Detects a band of approximately 38 kDa (predicted molecular weight: 34 kDa).</td>
</tr>
<tr>
<td>IP</td>
<td>★★★★★</td>
<td>1/50 - 1/100.</td>
</tr>
<tr>
<td>Flow Cyt</td>
<td>1/20 - 1/100.</td>
<td>ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.</td>
</tr>
<tr>
<td>ICC/IF</td>
<td>★★★★★</td>
<td>1/250 - 1/500.</td>
</tr>
</tbody>
</table>

## Images
Western blot - Anti-Synaptophysin antibody [EP1098Y] (ab52636) at 1/200000 dilution + Rat brain membrane

Secondary
Goat anti-rabbit HRP labeled at 1/2000 dilution

**Predicted band size:** 34 kDa
**Observed band size:** 38 kDa

why is the actual band size different from the predicted?

---

PC12 cells labelled with ab52636 at 1/250 - 1/500 dilution

Immunocytochemistry/ Immunofluorescence - Anti-Synaptophysin antibody [EP1098Y] (ab52636)

Human medulloblastoma labelled with ab52636 at 1/250 - 1/500 dilution

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Synaptophysin antibody [EP1098Y] (ab52636)

Overlay histogram showing PC12 cells stained with ab52636 (red line). The cells were fixed with methanol (5 min) and incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab52636, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (ab96899) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit monoclonal IgG (0.5µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a slightly decreased signal in PC12 cells fixed with 4% paraformaldehyde (10 min) used under the same conditions.

Please note that Abcam do not have data for use of this antibody on
non-fixed cells. We welcome any customer feedback.

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