abcam

Product datasheet

Anti-Syntaxin 1a antibody [EPR11072(B)] ab170890

Recombinant   RabMAb

4 Images

Overview

Product name	Anti-Syntaxin 1a antibody [EPR11072(B)]
Description	Rabbit monoclonal [EPR11072(B)] to Syntaxin 1a
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), IP, WB **Unsuitable for:** ICC/IF or IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide within Human Syntaxin 1a aa 1-100 (Cysteine residue). The exact sequence is proprietary. Database link: **Q16623**
Positive control	Fetal brain, Human cerebellum and SH-SY5Y lysates; SH-SY5Y cells.
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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant

Clonality	Monoclonal	
Clone number	EPR11072(B)	
Isotype	IgG	

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab170890 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
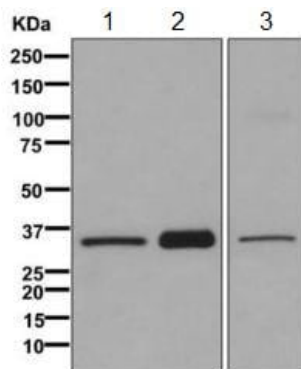
Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP		1/10 - 1/100.
WB		1/10000 - 1/50000. Predicted molecular weight: 33 kDa.

Application notes	Is unsuitable for ICC/IF or IHC-P.

Target

Function	Potentially involved in docking of synaptic vesicles at presynaptic active zones. May play a critical role in neurotransmitter exocytosis. May mediate Ca(2+)-regulation of exocytosis acrosomal reaction in sperm.
Tissue specificity	Isoform 1 is highly expressed in embryonic spinal chord and ganglia and in adult cerebellum and cerebral cortex. Isoform 2 is expressed in heart, liver, fat, skeletal muscle, kidney and brain.
Involvement in disease	Note=STX1A is located in the Williams-Beuren syndrome (WBS) critical region. WBS results from a hemizygous deletion of several genes on chromosome 7q11.23, thought to arise as a consequence of unequal crossing over between highly homologous low-copy repeat sequences flanking the deleted region.
Sequence similarities	Belongs to the syntaxin family. Contains 1 t-SNARE coiled-coil homology domain.
Cellular localization	Secreted and Cytoplasmic vesicle > secretory vesicle > synaptic vesicle membrane. Cell junction > synapse > synaptosome.

Images

Western blot - Anti-Syntaxin 1a antibody
[EPR11072(B)] (ab170890)

All lanes : Anti-Syntaxin 1a antibody [EPR11072(B)] (ab170890) at 1/10000 dilution

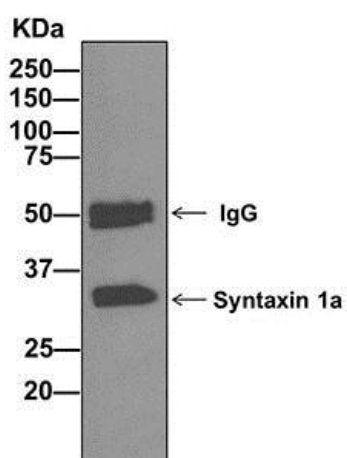**Lane 1 :** Fetal brain tissue lysate

Lane 2 : Human cerebellum lysate

Lane 3 : SH-SY5Y cell lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-rabbit HRP at 1/2000 dilution

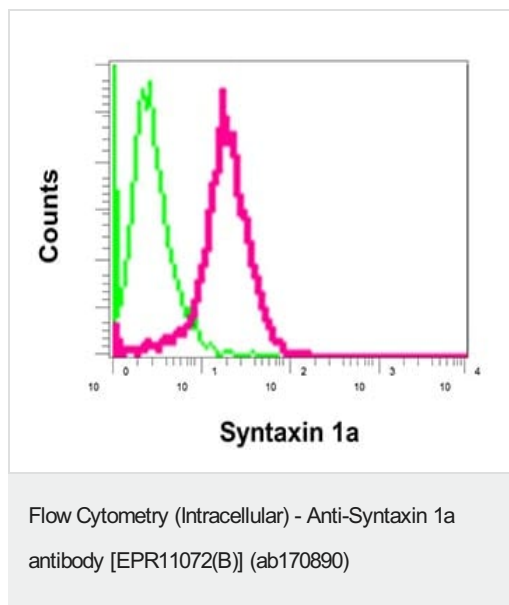**Predicted band size:** 33 kDa

Immunoprecipitation - Anti-Syntaxin 1a antibody
[EPR11072(B)] (ab170890)

Western blot analysis on immunoprecipitation pellet from human fetal brain lysate using ab170890.

Lane 1 Primary: ab170890, 1/10000 dilution

Sample: Immunoprecipitation pellet from Human fetal brain lysate

Predicted band 33 kDa

Intracellular flow cytometric analysis of permeabilized SH-SY5Y cells labeling Syntaxin 1a with ab170890 at 1/10 dilution (red) compared to a rabbit IgG negative control (green).

Flow Cytometry (Intracellular) - Anti-Syntaxin 1a antibody [EPR11072(B)] (ab170890)

Anti-Syntaxin 1a antibody [EPR11072(B)] (ab170890)

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