

Product datasheet

Anti-Syntaxin antibody [EPR15139(B)] - BSA and Azide free ab250975

Recombinant RabMAb

[13 Images](#)

Overview

Product name	Anti-Syntaxin antibody [EPR15139(B)] - BSA and Azide free
Description	Rabbit monoclonal [EPR15139(B)] to Syntaxin - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: WB, IP, ICC/IF, IHC-P
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Mouse, rat and human cerebellum tissue lysate. IHC-P: Mouse, rat and human cerebrum tissue. ICC/IF: Mouse and rat primary neural/glia cells.
General notes	<p>ab250975 is the carrier-free version of ab188583.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR15139(B)
Isotype	IgG

Applications

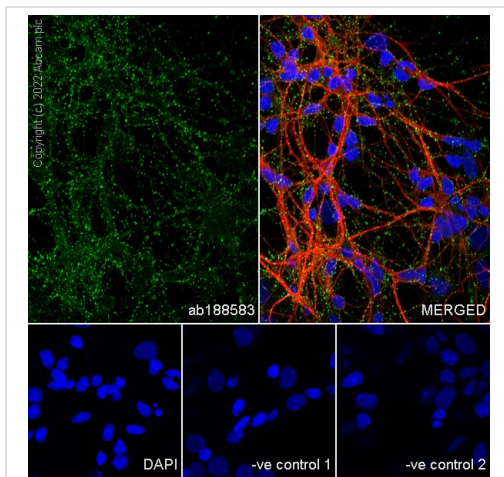
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab250975 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use at an assay dependent concentration. Predicted molecular weight: 33 kDa.
IP		Use at an assay dependent concentration.
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Function	Potentially involved in docking of synaptic vesicles at presynaptic active zones. May mediate Ca(2+)-regulation of exocytosis acrosomal reaction in sperm.
Sequence similarities	Belongs to the syntaxin family. Contains 1 t-SNARE coiled-coil homology domain.
Post-translational modifications	Phosphorylated by CK2.
Cellular localization	Membrane.

Images



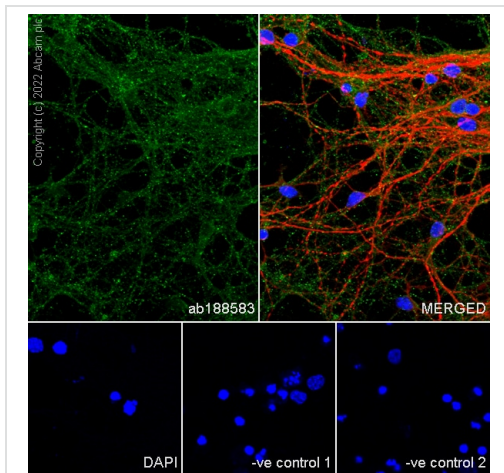
Immunocytochemistry/ Immunofluorescence - Anti-Syntaxin antibody [EPR15139(B)] - BSA and Azide free (ab250975)

This data was developed using [ab188583](#), the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized rat primary neural/glia cells labelling Syntaxin with [ab188583](#) at 1/100 dilution (10.85 ug/ml), followed by [ab150081](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (2 ug/ml) (Green).

[ab11267](#) Anti-MAP2 mouse monoclonal antibody was used for counterstaining at 1/500 dilution (4ug/ml) with counterstain secondary antibody [ab150120](#) Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) used at 1/1000 dilution (2µg/mL) (Red). The Nuclear counterstain was DAPI (Blue). -ve control 1: [ab188583](#) used at 1/100 dilution with counterstain secondary antibody only [ab150120](#) Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) used at 1/1000 dilution. -ve control 2: [ab11267](#) used at 1/500 dilution with target secondary antibody only [ab150081](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed used at 1/1000 dilution.

Confocal image showing positive staining in rat primary neuron. Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection.



Immunocytochemistry/ Immunofluorescence - Anti-Syntaxin antibody [EPR15139(B)] - BSA and Azide free (ab250975)

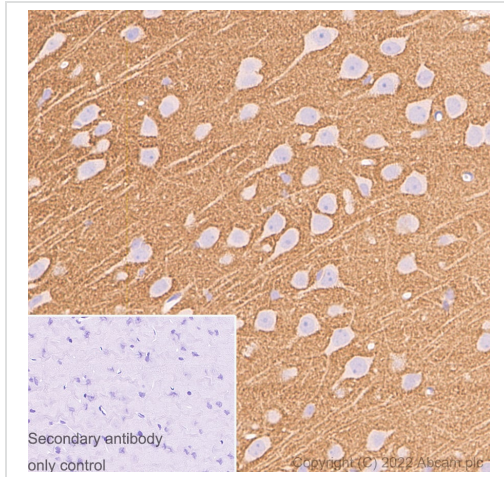
This data was developed using [ab188583](#), the same antibody clone in a different buffer formulation.

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized mouse primary neural/glia cells labelling Syntaxin with [ab188583](#) at 1/100 dilution (10.85 ug/ml), followed by [ab150081](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 dilution (2 ug/ml) (Green).

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Confocal image showing positive staining in mouse primary neuron. Confocal scanning Z step was set as 0.3 µm followed by image

processing with maximum Z projection.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syntaxin antibody [EPR15139(B)] - BSA and Azide free (ab250975)

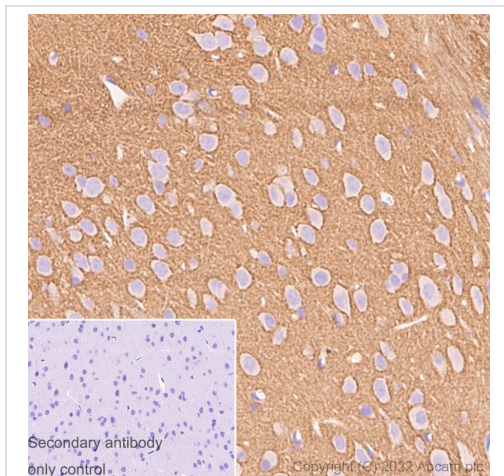
This data was developed using **ab188583**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Rat cerebrum tissue labeling Syntaxin with **ab188583** at 1/10000 dilution (0.109 µg/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. The section was counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins.

Positive staining on rat cerebrum. The section was incubated with **ab188583** for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syntaxin antibody [EPR15139(B)] - BSA and Azide free (ab250975)

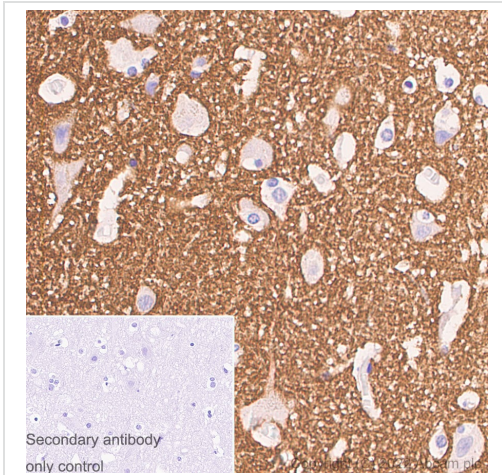
This data was developed using **ab188583**, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse cerebrum tissue labeling Syntaxin with **ab188583** at 1/10000 dilution (0.109 µg/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. The section was counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins.

Positive staining on mouse cerebrum. The section was incubated with **ab188583** for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syntaxin antibody [EPR15139(B)] - BSA and Azide free (ab250975)

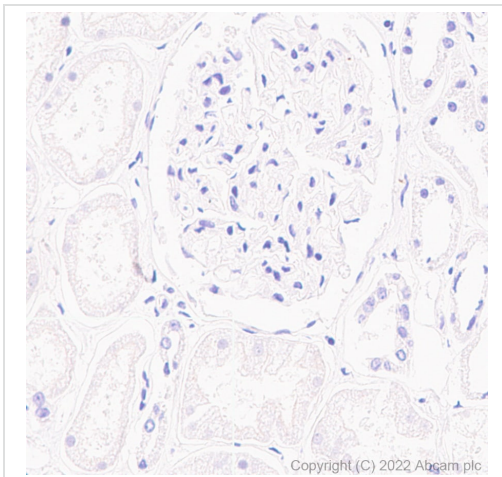
This data was developed using [ab188583](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human cerebrum tissue labeling Syntaxin with [ab188583](#) at 1/10000 dilution (0.109 µg/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. The section was counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins.

Positive staining on human cerebrum. The section was incubated with [ab188583](#) for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Syntaxin antibody [EPR15139(B)] - BSA and Azide free (ab250975)

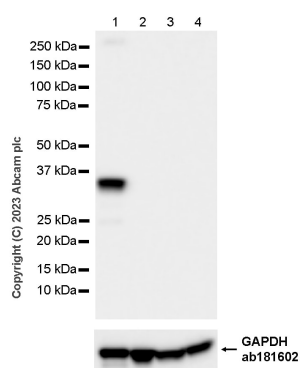
This data was developed using [ab188583](#), the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human kidney tissue labeling Syntaxin with [ab188583](#) at 1/10000 dilution (0.109 µg/ml) followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection) was used. The section was counterstained with Hematoxylin. Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval was performed with Citrate buffer (pH 6.0, Epitope Retrieval Solution 1) for 20 mins.

Negative control: no staining on human kidney. The section was incubated with [ab188583](#) for 30 mins at room temperature.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



Western blot - Anti-Syntaxin antibody
[EPR15139(B)] - BSA and Azide free (ab250975)

All lanes : Anti-Syntaxin antibody [EPR15139(B)] (**ab188583**) at 1/1000 dilution

Lane 1 : Rat cerebellum tissue lysate

Lane 2 : Rat heart tissue lysate

Lane 3 : Rat kidney tissue lysate

Lane 4 : Rat spleen tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 33 kDa

Observed band size: 33 kDa

Exposure time: 1 second

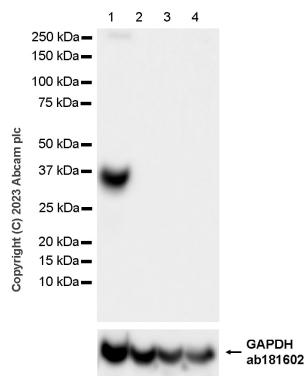
This data was developed using **ab188583**, the same antibody clone in a different buffer formulation.

Blocking and diluting buffer and concentration: 5% NFDm/TBST.

ab181602 was used as a GAPDH loading control.

Negative control: rat heart, rat kidney and rat spleen.

In Western blot, anti-GAPDH antibody (**ab181602**) staining at 1/20,000 dilution.



Western blot - Anti-Syntaxin antibody
[EPR15139(B)] - BSA and Azide free (ab250975)

All lanes : Anti-Syntaxin antibody [EPR15139(B)] ([ab188583](#)) at 1/1000 dilution

Lane 1 : Mouse cerebellum tissue lysate

Lane 2 : Mouse heart tissue lysate

Lane 3 : Mouse kidney tissue lysate

Lane 4 : Mouse spleen tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 33 kDa

Observed band size: 33 kDa

Exposure time: 1 second

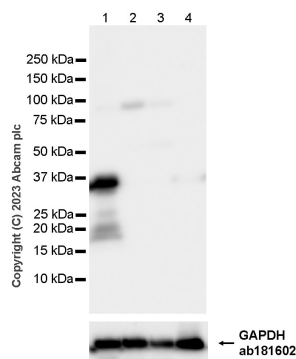
This data was developed using [ab188583](#), the same antibody clone in a different buffer formulation.

Blocking and diluting buffer and concentration: 5% NFDm/TBST.

[ab181602](#) was used as a GAPDH loading control.

Negative control: mouse heart, mouse kidney and mouse spleen.

In Western blot, anti-GAPDH antibody ([ab181602](#)) staining at 1/20,000 dilution.



Western blot - Anti-Syntaxin antibody
[EPR15139(B)] - BSA and Azide free (ab250975)

All lanes : Anti-Syntaxin antibody [EPR15139(B)] ([ab188583](#)) at 1/1000 dilution

Lane 1 : Human cerebellum tissue lysate

Lane 2 : Human heart tissue lysate

Lane 3 : Human kidney tissue lysate

Lane 4 : Human spleen tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

Predicted band size: 33 kDa

Observed band size: 33 kDa

Exposure time: 1 second

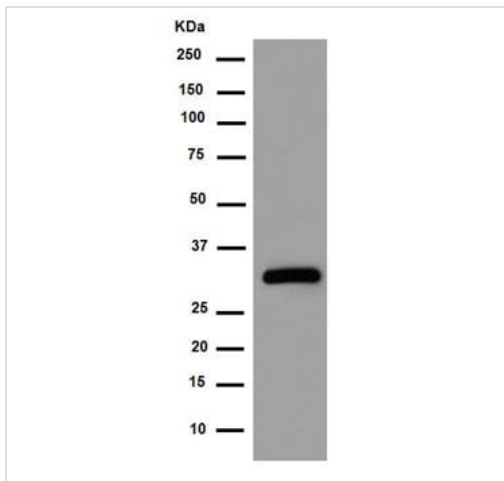
This data was developed using [ab188583](#), the same antibody clone in a different buffer formulation.

Blocking and diluting buffer and concentration: 5% NFDm/TBST.

[ab181602](#) was used as a GAPDH loading control.

Negative control: human heart, human kidney and human spleen.

In Western blot, anti-GAPDH antibody ([ab181602](#)) staining at 1/20,000 dilution.



Western blot - Anti-Syntaxin antibody
[EPR15139(B)] - BSA and Azide free (ab250975)

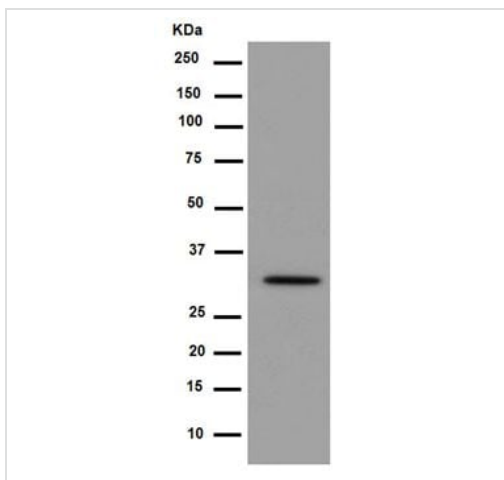
Anti-Syntaxin antibody [EPR15139(B)] ([ab188583](#)) at 1/50000 dilution + Human fetal brain tissue lysate at 20 μ g

Secondary

Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution

Predicted band size: 33 kDa

This data was developed using [ab188583](#), the same antibody clone in a different buffer formulation.



Western blot - Anti-Syntaxin antibody
[EPR15139(B)] - BSA and Azide free (ab250975)

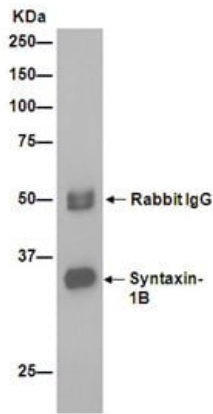
Anti-Syntaxin antibody [EPR15139(B)] ([ab188583](#)) at 1/50000 dilution + Human glioma tissue lysate at 10 μ g

Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/500 dilution

Predicted band size: 33 kDa

This data was developed using [ab188583](#), the same antibody clone in a different buffer formulation.



This data was developed using **ab188583**, the same antibody clone in a different buffer formulation. Immunoprecipitation of Human fetal brain lysates using **ab188583**. Detection of Syntaxin utilised **ab188583** at 1/50 dilution and Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000 dilution.

Immunoprecipitation - Anti-Syntaxin antibody [EPR15139(B)] - BSA and Azide free (ab250975)

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-Syntaxin antibody [EPR15139(B)] - BSA and Azide free (ab250975)

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

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