

Anti-Syntaxin antibody [STX01 (HPC-1)] α b3265

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Overview

Product name	Anti-Syntaxin antibody [STX01 (HPC-1)]
Description	Mouse monoclonal [STX01 (HPC-1)] to Syntaxin
Host species	Mouse
Specificity	In hippocampus, the antibody recognizes the stratum radiatum, the layer formed by the fibers of denate granule cells, as they synapse onto hippocampal pyramidal cells. In rat retina, it stains the membrane of the amacrine cell bodies and inner plexiform layer. It recognizes some neurons early in development and can be detected on migrating amacrine cells in embryonic retina.
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Rat, Human
Immunogen	Recombinant fragment corresponding to Rat Syntaxin aa 3-225.
Positive control	IMR-5 cells Cerebral cortex tissue sections. SH-SY5Y cell lysate
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Constituent: PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	STX01 (HPC-1)
Isotype	IgG1

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab3265 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		1/100. Detects a band of approximately 31 kDa (predicted molecular weight: 35 kDa).
ICC/IF		1/50.

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.

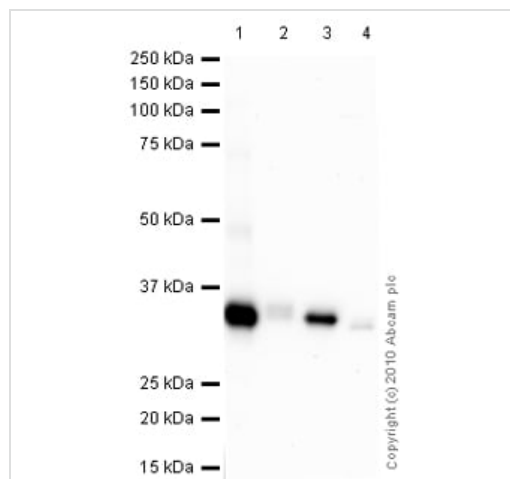
Post-translational modifications

Phosphorylated by CK2.

Cellular localization

Membrane.

Images



Western blot - Anti-Syntaxin antibody [STX01 (HPC-1)] (ab3265)

All lanes : Anti-Syntaxin antibody [STX01 (HPC-1)] (ab3265) at 1 µg/ml

Lane 1 : Human brain tissue lysate - total protein ([ab29466](#))

Lane 2 : Human spinal cord tissue lysate - total protein ([ab29188](#))

Lane 3 : Spinal Cord (Rat) Tissue Lysate

Lane 4 : SHSY-5Y (Human neuroblastoma cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat polyclonal Secondary Antibody to Rabbit IgG - H&L (HRP), pre-adsorbed at 1/3000 dilution

Developed using the ECL technique.

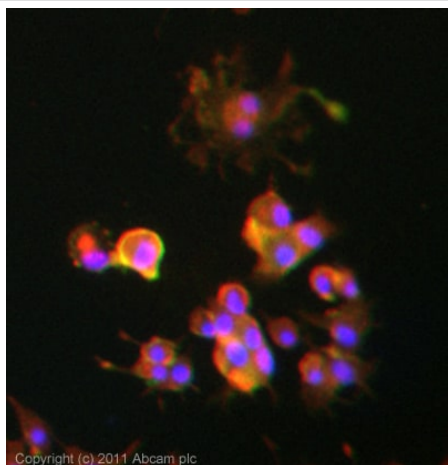
Performed under reducing conditions.

Predicted band size: 35 kDa

Observed band size: 35 kDa

Additional bands at: 48 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 1 minute



Immunocytochemistry/ Immunofluorescence - Anti-Syntaxin antibody [STX01 (HPC-1)] (ab3265)

ICC/IF image of ab3265 stained PC12 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab3265, 1µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-mouse IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

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

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