abcam

Product datasheet

Anti-Synaptotagmin antibody [ASV30] ab13259

★★★★★ 1 Abreviews 22 References 3 Images

Overview

Product name	Anti-Synaptotagmin antibody [ASV30]
Description	Mouse monoclonal [ASV30] to Synaptotagmin
Host species	Mouse
Tested applications	**Suitable for:** WB, ICC/IF, IP
Species reactivity	**Reacts with:** Mouse, Rat
Immunogen	Full length protein corresponding to Rat Synaptotagmin. Rat brain synaptic junction protein complexes Database link: **P21707**
Positive control	Mouse or Rat brain tissue extract.
General notes	This product was changed from ascites to tissue culture supernatant on 5th July 2019. Lot numbers higher than GR3258922 are from tissue culture supernatant. Please note that the dilutions may need to be adjusted accordingly. If you have any questions, please do not hesitate to contact our scientific support team. 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. 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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
Purity	Protein G purified
Purification notes	Purified from TCS.
Clonality	Monoclonal

Clone number	ASV30
Isotype	IgG2a

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab13259 in the following tested applications.

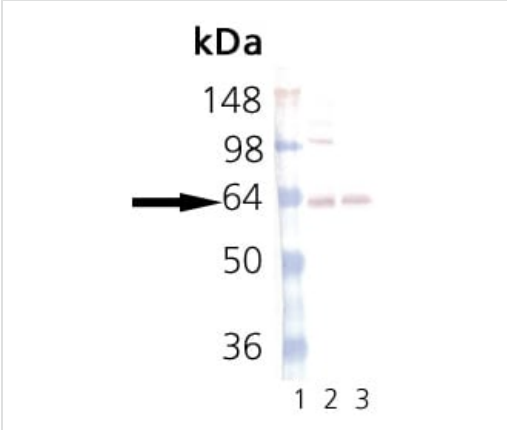
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (1)	1/1000.
ICC/IF		Use a concentration of 5 µg/ml.
IP		Use a concentration of 5 µg/ml.

Target

Function	May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse. It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone.
Sequence similarities	Belongs to the synaptotagmin family. Contains 2 C2 domains.
Domain	The first C2 domain mediates Ca(2+)-dependent phospholipid binding. The second C2 domain mediates interaction with Stonin 2.
Cellular localization	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane. Cytoplasmic vesicle, secretory vesicle, chromaffin granule membrane. Synaptic vesicles and chromaffin granules.

Images



Western blot - Anti-Synaptotagmin antibody [ASV30] (ab13259)

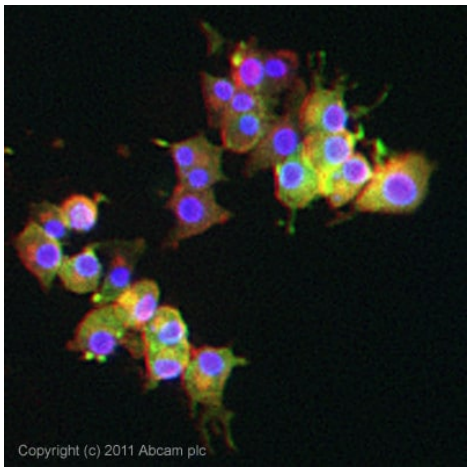
All lanes : Anti-Synaptotagmin antibody [ASV30] (ab13259) at 1/1000 dilution

Lane 1 : Molecular weight ladder

Lane 2 : Lysates prepared from mouse brain

Lane 3 : Lysates prepared from rat brain

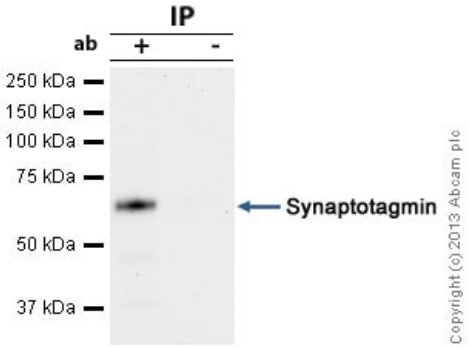
This image was generated using the ascites version of the product.



Immunocytochemistry/ Immunofluorescence - Anti-Synaptotagmin antibody [ASV30] (ab13259)

ICC/IF image of ab13259 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 (ab13259, 5µg/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.

This image was generated using the ascites version of the product.



Immunoprecipitation - Anti-Synaptotagmin antibody [ASV30] (ab13259)

Synaptotagmin was immunoprecipitated using 0.5mg Mouse Brain tissue lysate, 5µg of Mouse monoclonal to Synaptotagmin and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).
The antibody was incubated under agitation with Protein G beads for 10min, Mouse Brain tissue lysate lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.
Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70^{o}C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab13259.
Secondary: Goat polyclonal to mouse IgG light chain specific (HRP) at 1/20,000 dilution.
Band: 64kDa; Synaptotagmin

This image was generated using the ascites version of the product.

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