


Product datasheet

Anti-Synaptophysin antibody ab32594

★★★★★ 13 Abreviews 42 References 9 Images

Overview

Product name	Anti-Synaptophysin antibody
Description	Rabbit polyclonal to Synaptophysin
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Rat Predicted to work with: Human 
Immunogen	Synthetic peptide: GPGGYGPQDSYGPQGGYQPD , corresponding to amino acids 253-272 of Rat Synaptophysin Run BLAST with Run BLAST with
Positive control	WB: Mouse and rat brain tissue lysates.
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. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS, 0.1% BSA
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab32594 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	★★★★★ (5)	1/5000. Detects a band of approximately 33.8 kDa (predicted molecular weight: 34 kDa).
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.

Target

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.

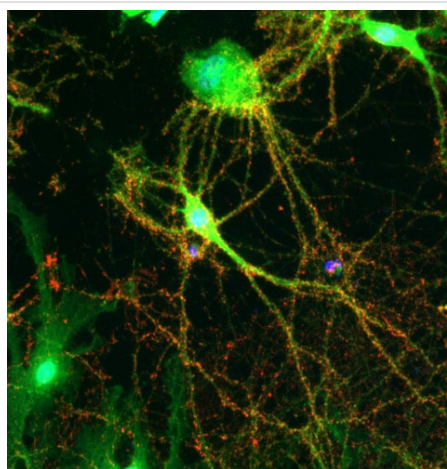
Post-translational modifications

Ubiquitinated; mediated by SIAH1 or SIAH2 and leading to its subsequent proteasomal degradation.

Cellular localization

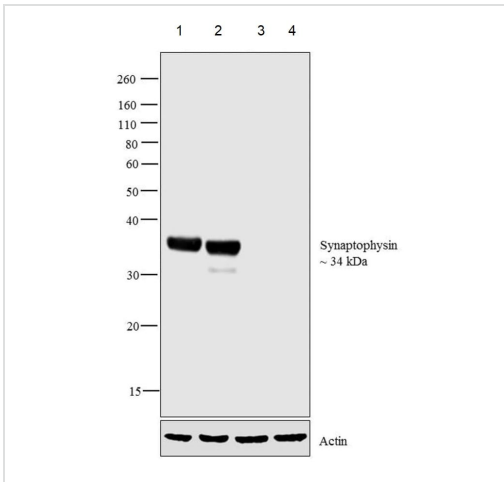
Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane. Cell junction, synapse, synaptosome.

Images



ab32594 labelling Synaptophysin by Immunocytochemistry/Immunofluorescence.

Immunocytochemistry/ Immunofluorescence - Anti-Synaptophysin antibody (ab32594)



Western blot - Anti-Synaptophysin antibody (ab32594)

All lanes : Anti-Synaptophysin antibody (ab32594) at 1/1000 dilution

Lane 1 : Mouse brain tissue lysate

Lane 2 : Rat brain tissue lysate

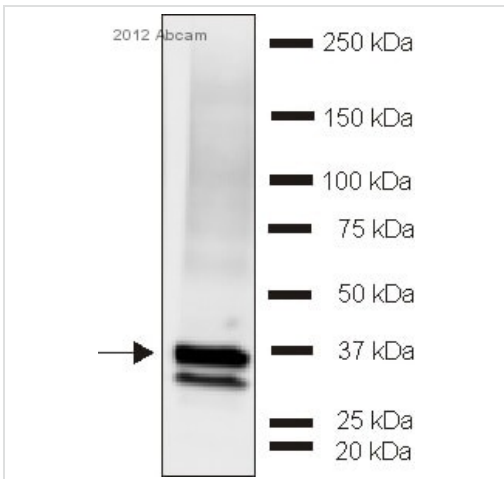
Lane 3 : Rat liver tissue lysate

Lane 4 : Rat kidney tissue lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 34 kDa

Western blot analysis was performed on tissue extracts (30 µg lysate). The blot was probed with ab32594 (1:1000 dilution) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Superclonal™ Secondary Antibody, HRP conjugate. A 34 kDa band corresponding to Synaptophysin was observed in Mouse Brain, Rat Brain and not observed in other tissues which are documented to be Synaptophysin negative.



Western blot - Anti-Synaptophysin antibody (ab32594)

This image is courtesy of an anonymous Abreview

Anti-Synaptophysin antibody (ab32594) at 1/1000 dilution + Apternotus leptorhynchus brain tissue lysate at 50 µg

Secondary

AlexaFluor®488-conjugated goat anti-rabbit polyclonal IgG at 1/1000 dilution

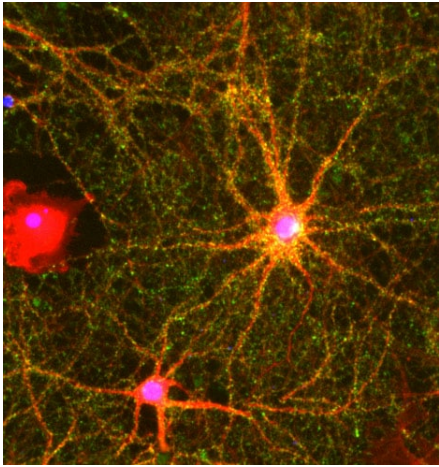
Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 34 kDa

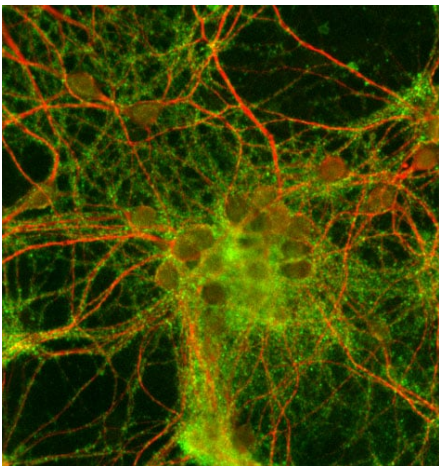
Observed band size: 33,35 kDa

Exposure time: 7 minutes



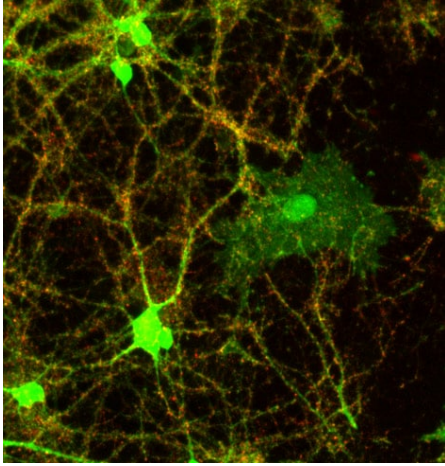
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Immunocytochemistry/ Immunofluorescence - Anti-
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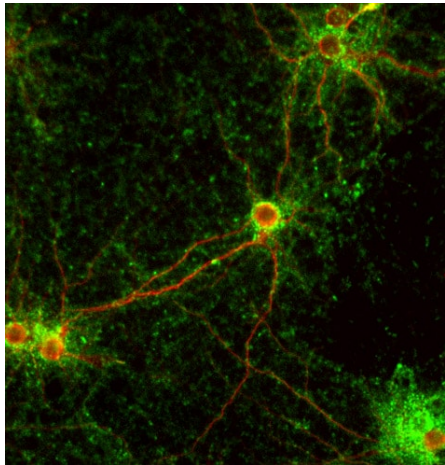
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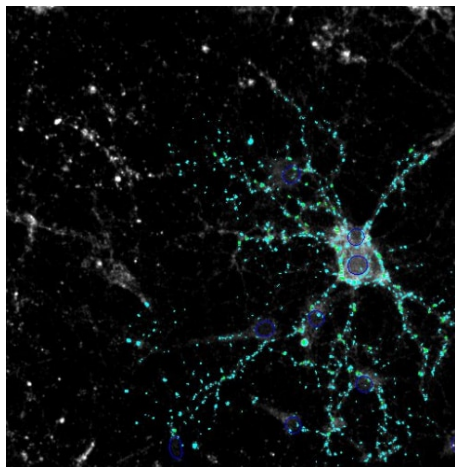
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Western blot - Anti-Synaptophysin antibody (ab32594)

Anti-Synaptophysin antibody (ab32594) at 1/5000 dilution + Rat brain

Predicted band size: 34 kDa

Observed band size: 33.8 kDa

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

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