

Product datasheet

Anti-Synapsin I antibody ab18814

★★★★☆ 4 Abreviews 13 References 2 Images

Overview

<b>Product name</b>	Anti-Synapsin I antibody
<b>Description</b>	Rabbit polyclonal to Synapsin I
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human Synapsin I. Corresponds to residues surrounding amino acid 12 of Synapsin I.
<b>General notes</b>	<p>This product is manufactured by BioVision, an Abcam company and was previously called 6008 Synapsin Antibody. 6008-100 is the same size as the 100 µg size of ab18814.</p> <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&amp;As</p>

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: 0.02% Thimerosal (merthiolate) Constituents: PBS, 50% Glycerol (glycerin, glycerine), 1% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

## The Abpromise guarantee

Our [Abpromise guarantee](#) covers the use of ab18814 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	★★★★☆ (4)	Use a concentration of 1 µg/ml. Detects a band of approximately 77 kDa (predicted molecular weight: 74 kDa).

## Target

### Function

Neuronal phosphoprotein that coats synaptic vesicles, binds to the cytoskeleton, and is believed to function in the regulation of neurotransmitter release. The complex formed with NOS1 and CAPON proteins is necessary for specific nitric-oxid functions at a presynaptic level.

### Involvement in disease

Defects in SYN1 are a cause of epilepsy X-linked with variable learning disabilities and behavior disorders [MIM:300491]. XELBD is characterized by variable combinations of epilepsy, learning difficulties, macrocephaly, and aggressive behavior.

### Sequence similarities

Belongs to the synapsin family.

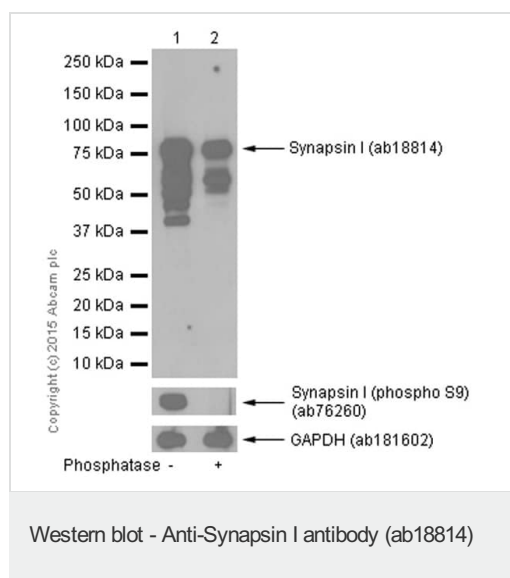
### Post-translational modifications

Substrate of at least four different protein kinases. It is probable that phosphorylation plays a role in the regulation of synapsin-1 in the nerve terminal. Phosphorylated upon DNA damage, probably by ATM or ATR.

### Cellular localization

Cell junction > synapse. Golgi apparatus.

## Images



**All lanes** : Anti-Synapsin I antibody (ab18814) at 1/5000 dilution

**Lane 1** : Human brain whole cell lysate - untreated

**Lane 2** : Human brain whole cell lysate - treated with Alkaline Phosphatase

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

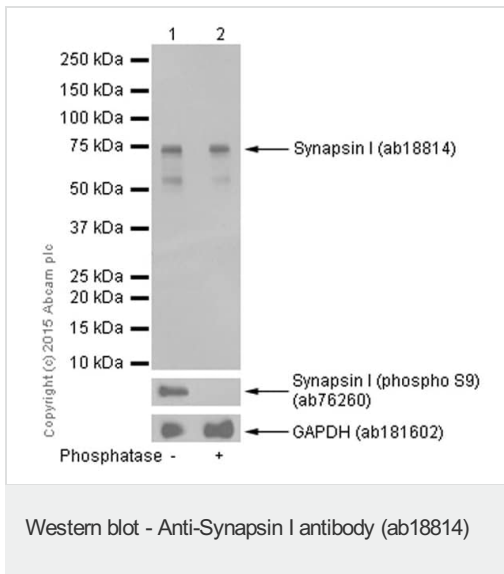
**Predicted band size:** 74 kDa

**Observed band size:** 77 kDa

**Exposure time:** 3 minutes

Blocking and dilution buffer: 5% NFDN/TBST.

Controls - Anti-Synapsin I (phospho S9) antibody [EP2162Y] ([ab76260](#)) and Anti-GAPDH antibody [EPR16891] ([ab181602](#)).



**All lanes :** Anti-Synapsin I antibody (ab18814) at 1/5000 dilution

**Lane 1 :** Rat brain whole cell lysate - untreated

**Lane 2 :** Rat brain whole cell lysate - treated with Alkaline Phosphatase

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 74 kDa

**Observed band size:** 77 kDa

**Exposure time:** 15 seconds

Blocking and dilution buffer: 5% NFDN/TBST.

Controls - Anti-Synapsin I (phospho S9) antibody [EP2162Y] ([ab76260](#)) and Anti-GAPDH antibody [EPR16891] ([ab181602](#)).

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

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