

Product datasheet

Anti-Synapsin I (phospho S603) antibody ab13879

2 References 1 Image

Overview

Product name	Anti-Synapsin I (phospho S603) antibody
Description	Rabbit polyclonal to Synapsin I (phospho S603)
Host species	Rabbit
Tested applications	Suitable for: WB
Immunogen	Synthetic peptide corresponding to Rat Synapsin I (phospho S603).
General notes	<p>Aliquots may be taken without freeze/thawing due to the presence of 50% glycerol.</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&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	pH: 7.50 Constituents: 0.238% HEPES, 0.87% Sodium chloride, 0.01% BSA
Purity	Immunogen affinity purified
Purification notes	The antibody was purified by sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab13879 in the following tested applications.

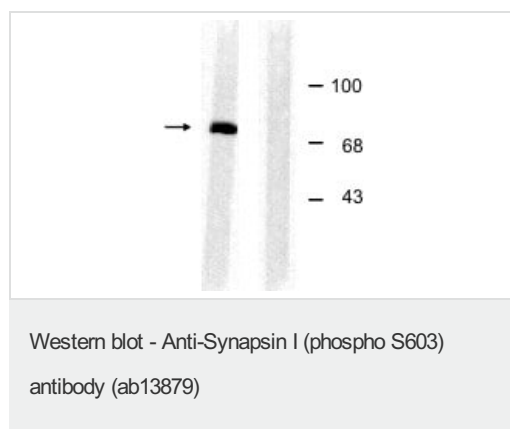
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 84.6 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



Right lane-ab13879 at 1/1000 dilution detecting synapsin I by Western blot. Left lane-Peptide block. Right lane-ab13879 at 1/1000 dilution detecting synapsin I by Western blot. Left lane-Peptide block.

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