abcam

Product datasheet

Anti-Synapsin I (phospho S553) antibody ab138408

1 Image

Overview

Product name	Anti-Synapsin I (phospho S553) antibody
Description	Rabbit polyclonal to Synapsin I (phospho S553)
Host species	Rabbit
Specificity	ab138408 detects endogenous levels of Synapsin I only when phosphorylated at Serine 553.
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic phospho-peptide derived from Human Synapsin I around the internal phosphorylation site of Serine 553.
Positive control	293 cell extracts, treated with PMA.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20ºC.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol, 0.88% Sodium chloride Note: PBS is without Mg^{2+} and Ca^{2+}
Purity	Immunogen affinity purified
Purification notes	ab138408 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee	Our **Abpromise guarantee** covers the use of ab138408 in the following tested applications.

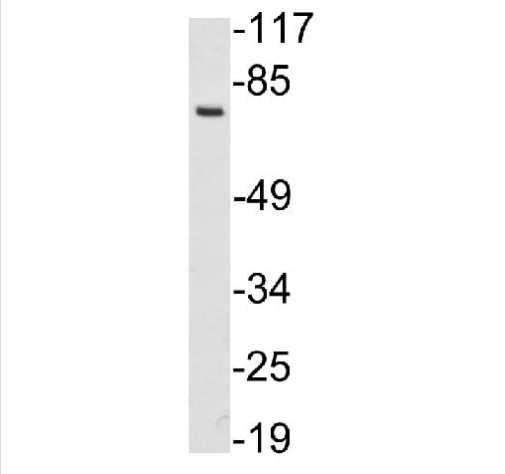
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. 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



Western blot - Anti-Synapsin I (phospho S553) antibody (ab138408)

Anti-Synapsin I (phospho S553) antibody (ab138408) at 1/500 dilution + 293 cell extracts, treated with PMA at 30 µg

Predicted band size: 74 kDa

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