

Rabbit Synapsin Polyclonal Antibody | anti-SYN1 antibody

Phospho-Synapsin (Ser9) Antibody

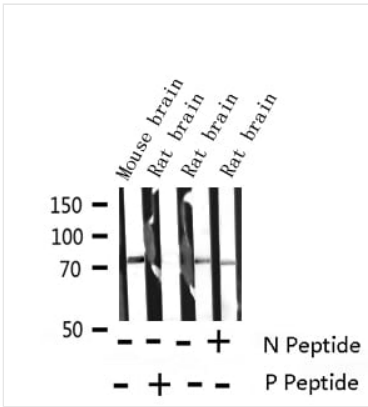
CATALOG # AAA321546	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS ELISA, Immunocytochemistry, Immunofluorescence, Western Blot
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PRODUCT SYNONYMS

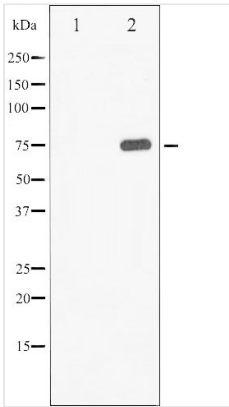
Synapsin; Polyclonal Antibody; Phospho-Synapsin (Ser9) Antibody; Brain protein 4.1; SYN 1; SYN 1a; SYN 1b; SYN I; SYN1; SYN1_HUMAN; SYN1a; SYN1b; Synapsin 1; Synapsin I; Synapsin-1; Synapsin1; SynapsinI; SYN1; anti-SYN1 antibody

PRODUCT SPECIFICATIONS

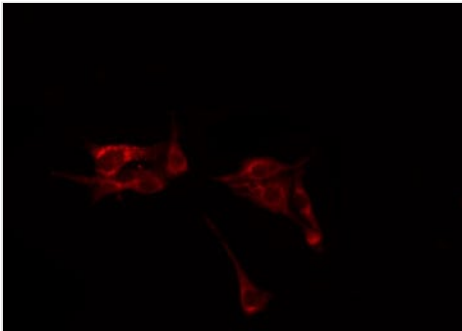
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-Synapsin (Ser9) antibody detects endogenous levels of Synapsin only when phosphorylated at Serine 9
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	705
Applicable Applications for anti-SYN1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Synapsin around the phosphorylation site of Serine 9
Subcellular Location	Cell Junction > Synapse. Golgi Apparatus.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Sheep, Rabbit, Xenopus
Similarity	Pig (100%), Zebrafish (100%), Bovine (100%), Sheep (100%), Rabbit (100%), Xenopus (100%)
Conjugation	Unconjugated
Epitope	Phospho Ser9
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of Phospho-Synapsin (Ser9) expression in various lysates



WB (Western Blot)
Western blot analysis of Synapsin phosphorylation expression in PMA treated 293 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)
AAA321546 staining HeLa by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SYN1 antibody

Description: This gene is a member of the synapsin gene family. Synapsins encode neuronal phosphoproteins which associate with the cytoplasmic surface of synaptic vesicles. Family members are characterized by common protein domains, and they are implicated in synaptogenesis and the modulation of neurotransmitter release, suggesting a potential role in several neuropsychiatric diseases.

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.

Subunit Structure: Homodimer. Interacts with CAPON. Forms a ternary complex with NOS1. Isoform Ib interacts with PRNP (By similarity).

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. Phosphorylation at Ser-9 dissociates synapsins from synaptic vesicles.

Similarity: The A region binds phospholipids with a preference for negatively charged species. Belongs to the synapsin family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	19924099
NCBI GeneID	6853
NCBI Accession #	NP_008881.2
NCBI GenBank Nucleotide #	NM_006950.3

UniProt Accession #	P17600 ; O75825 ; Q5H9A9 ; B1AJQ1
Molecular Weight	Observed: 77 kDa Predicted: 75 kDa
NCBI Official Full Name	synapsin-1 isoform Ia
NCBI Official Synonym Full Names	synapsin I
NCBI Official Symbol	SYN1
NCBI Official Synonym Symbols	SYNI; SYN1a; SYN1b
NCBI Protein Information	synapsin-1
UniProt Protein Name	Synapsin-1
UniProt Gene Name	SYN1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/synapsin-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321546>