

Rabbit Synapsin I Polyclonal Antibody | anti-SYN1 antibody

Synapsin I Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329215	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence

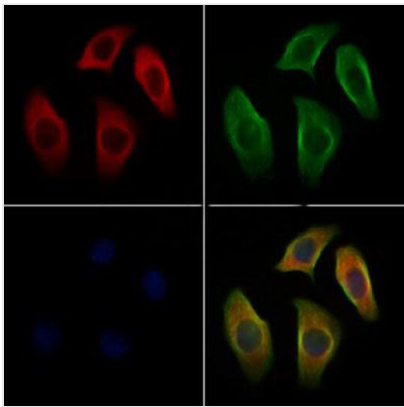
PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

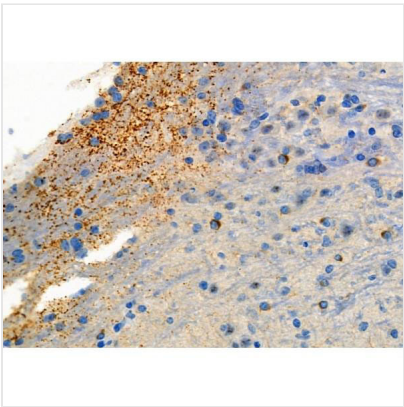
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Synapsin I Antibody detects endogenous levels of total Synapsin I.
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-SYN1 antibody	ELISA (Peptide ELISA), ICC (Immunocytochemistry), IF (Immunofluorescence)
Immunogen	A synthesized peptide derived from human Synapsin I.
Conjugation	Unconjugated
Fragment	Fab fragment
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.
Subunit Structure	Homodimer. Interacts with CAPON. Forms a ternary complex with NOS1. Isoform Ib interacts with PRNP (By similarity).
Similarity	The A region binds phospholipids with a preference for negatively charged species. Belongs to the synapsin family.
Subcellular Location	Cell junction>Synapse. Golgi apparatus.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

Staining HeLa cells by IF/ICC. The samples were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. Samples were then incubated with primary Ab(AF2716 1:200) and mouse anti-beta tubulin Ab(T0023 1:200) for 1 hour at 37 degree C. An AlexaFluor594 conjugated goat anti-rabbit IgG(H+L) Ab(Red) and an AlexaFluor488 conjugated goat anti-mouse IgG(H+L) Ab(Green) were used as the secondary antibody. The nuclear counter stain is DAPI(blue).



IHC (Immunohistochemistry)

At 1/100 staining Mouse brain tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SYN1 antibody	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.
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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	74,111 Da
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; brain protein 4.1
UniProt Protein Name	Synapsin-1
UniProt Gene Name	SYN1
UniProt Entry Name	SYN1_HUMAN

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.