

Rabbit Synaptotagmin Polyclonal Antibody | anti-SYT1 antibody

Phospho-Synaptotagmin (Thr202) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321566	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Synaptotagmin; Polyclonal Antibody; Phospho-Synaptotagmin (Thr202) Antibody; DKFZp781D2042; FLJ42519; p65; SVP65; Synaptotagmin 2; Synaptotagmin I; Synaptotagmin II; Synaptotagmin-1; SYT; Syt1; SYT1_HUMAN; Syt2; Sytl; Synaptotagmin-2; Synaptotagmin2; SynaptotagminII; SYT 2; Syt II; SYT2_HUMAN; SytII; anti-SYT1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-Synaptotagmin (Thr202) antibody detects endogenous levels of Synaptotagmin only when phosphorylated at Threonine 202
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	422
Applicable Applications for anti-SYT1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Synaptotagmin around the phosphorylation site of Threonine 202
Subcellular Location	Cytoplasmic Vesicle > Secretory Vesicle > Synaptic Vesicle Membrane. Cytoplasmic Vesicle > Secretory Vesicle > Chromaffin Granule Membrane. Cytoplasm. Synaptic vesicles and chromaffin granules.
Tissue Specificity	Expressed in melanocytes (PubMed:23999003).
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (90%)
Conjugation	Unconjugated
Epitope	Phospho Thr202
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of Phospho-Synaptotagmin (Thr202) expression in various lysates



IHC (Immunohistochemistry)

AAA321566 at 1/100 staining human Thyroid cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



IF (Immunofluorescence)

AAA321566 staining 293 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.



WB (Western Blot)

Western blot analysis of Synaptotagmin phosphorylation expression in Forskolin treated 293 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-SYT1 antibody	Description: SYT2 May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse. It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone. Function: May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse. It binds acidic phospholipids with a specificity that requires the presence of both an acidic head group and a diacyl backbone. A Ca2+-dependent interaction between synaptotagmin and putative receptors for activated protein kinase C has also been reported. It can bind to at least three additional proteins in a Ca2+-independent manner; these are neurexins, syntaxin and AP2. Plays a role in dendrite formation by melanocytes (PubMed:23999003). Subunit Structure: Homotetramer (Probable). Interacts with SCAMP5, STON2, SV2A, SV2B, SV2C and RIMS1. Forms a complex with SV2B, syntaxin 1 and SNAP25 (By similarity). Interacts with PRRT2 (By similarity). Similarity: The first C2 domain mediates Ca2+-dependent phospholipid binding.The second C2 domain mediates interaction with SV2A and probably with STN2. Belongs to the synaptotagmin family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	209447070
NCBI GeneID	6857
NCBI Accession #	NP_001129277.1
NCBI GenBank Nucleotide #	NM_001135805.1
UniProt Accession #	P21579; Q6AI31
Molecular Weight	Observed: 60 kDa Predicted: 48 kDa
NCBI Official Full Name	synaptotagmin-1 isoform 1
NCBI Official Synonym Full Names	synaptotagmin 1
NCBI Official Symbol	SYT1
NCBI Official Synonym Symbols	P65; SYT; SVP65
NCBI Protein Information	synaptotagmin-1
UniProt Protein Name	Synaptotagmin-1

UniProt Gene Name	SYT1
UniProt Synonym Gene Names	SVP65; SYT; Sytl

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/synaptotagmin-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321566>