Rabbit Synaptotagmin Polyclonal Antibody | anti-SYT1 antibody

Synaptotagmin Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322265	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot**

PRODUCT SYNONYMS

Synaptotagmin; Polyclonal Antibody; Synaptotagmin Antibody; DKFZp781D2042; FLJ42519; p65; SVP65; Synaptotagmin 2; Synaptotagmin I; Synaptotagmin II; Synaptotagmin-1; SYT; Syt1; SYT1_HUMAN; Syt2; SytI; Synaptotagmin-2; Synaptotagmin2; SynaptotaginII; SYT 2; Syt II; SYT2_HUMAN; SytII; anti-SYT1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Synaptotagmin antibody detects endogenous levels of total Synaptotagmin
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
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
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 (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

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

IF (Immunofluorescence)
AAA322265 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.

IHC (Immunohistochemistry)
AAA322265 at 1/100 staining Human melanoma 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 antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

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.

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: 65 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; SytI

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: https://stage.aaabiotech.com/polyclonal/synaptotagmin-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/322265