

Rabbit SYT1 Polyclonal Antibody | anti-SYT1 antibody

SYT1 Antibody

CATALOG # AAA307528	HOST Rabbit	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunofluorescence, Immunohistochemistry, Western Blot
-------------------------------	-----------------------	--	---

PRODUCT SYNONYMS

SYT1; Polyclonal Antibody; SYT1 Antibody; DKFZp781D2042; P65; SVP65; SYT; anti-SYT1 antibody

PRODUCT SPECIFICATIONS

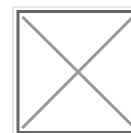
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Specificity	The antibody detects endogenous level of total SYT1 protein.
Purity/Purification	Antibodies were purified by affinity purification using immunogen.
Form/Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	422
Applicable Applications for anti-SYT1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen Type	Recombinant Protein
Immunogen Description	Recombinant protein of human SYT1.
Target Name	SYT1
Preparation and Storage	Store at -20 degree C

IMAGES



IF (Immunofluorescence)

Immunofluorescence analysis of HeLa cell using SYT1 antibody. Blue: DAPI for nuclear staining.



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using BID antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-SYT1 antibody	Synaptotagmin 1 (SYT1) is an integral membrane protein found in synaptic vesicles thought to play a role in vesicle trafficking and exocytosis (1). Individual SYT1 proteins are composed of an amino-terminal transmembrane region, a central linker region and a pair of carboxy-terminal C2 domains responsible for binding Ca2+ (2). The C2 domains appear to be functionally distinct, with the C2A domain responsible for regulating synaptic vesicle fusion in a calcium-dependent manner during exocytosis while the C2B domain allows for interaction between adjacent SYT1 proteins (3). Because synaptotagmin 1 binds calcium and is found in synaptic vesicles, this integral membrane protein is thought act as a calcium sensor in fast synaptic vesicle exocytosis. Evidence suggests possible roles in vesicle-mediated endocytosis and glucose-induced insulin secretion as well (4,5). SYT1 binds several different SNARE proteins during calcium-mediated vesicle endocytosis and an association between SYT1 and the SNARE protein SNAP-25 is thought to be a key element in vesicle-mediated exocytosis (6).
Product Categories/Family for anti-SYT1 antibody	Total protein Ab

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	47,573 Da
NCBI Official Full Name	synaptotagmin-1 isoform 1
NCBI Official Synonym Full Names	synaptotagmin I
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
UniProt Entry Name	SYT1_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/syt1-antibody-immunofluorescence-immunohistochemistry-western-blot-elisa/307528>