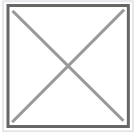
Synaptotagmin (SYT1) Antibody

PRODUCT OVERVIEW

Product Name	Synaptotagmin (SYT1), Antibody
Full Product Name	Synaptotagmin (Phospho-Ser309) Antibody
Product Gene Name	anti-SYT1 antibody
Species Reactivity	Human, Mouse, Rat
Form/Format	In phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	Affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific phosphopeptide. The antibody against non-phosphopeptide was removed by chromatography using non-phosphopeptide corresponding to the phosphorylation site.
Specificity	Synaptotagmin (Phospho-Ser309) Antibody detects endogenous levels of Synaptotagminonly when phosphorylated at serine 309.
Preparation and Storage	Store at-20 degree C for 1 year
Molecular Weight	47,573 Da
OMIM	185605
3D Structure	ModBase 3D Structure for P21579
Immunogen	The antiserum was produced against synthesized phosphopeptide derived from human Synaptotagmin around the phosphorylation site of serine 309 (G-L-SP-D-P).
Product Categories/Family for anti-SYT1 antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-SYT1 antibody	Immunofluorescence (IF)
Application Notes for anti-SYT1 antibody	IF: 1:100-1:200
Related Product Information for anti-SYT1 antibody	MBS857504 is an antibody targeting SYT1. Also known as Synaptotagmin (Phospho-Ser309) Antibody. Reactive in Human, Mouse, Rat.
Product References and Citations for anti-SYT1 antibody	Gustavsson N, et al. Proc Natl Acad Sci U S A. 2008 Mar 11; 105(10):3992-7. Cnops L, et al. Cereb Cortex. 2008 May; 18(5):1221-31. Lynch KL, et al. Mol Biol Cell. 2007 Dec; 18(12):4957-68.
Other Notes	Small volumes of anti-SYT1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Testing Data of anti-SYT1 antibody
Immunofluorescence staining of methanol-fixed HeLa cells using Synaptotagmin (Phospho-Ser309) Antibody (E011209, Red).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for SYT1. It may not necessarily be applicable to this product.

NCBI GI #	209447070
NCBI GeneID	6857
NCBI Accession #	NP_001129277.1
UniProt Primary Accession #	P21579
UniProt Secondary Accession #	Q6AI31
UniProt Related Accession #	P21579
GenBank Nucleotide #	NM_001135805.1
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
UniProt Protein Name	Synaptotagmin-1
UniProt Synonym Protein Names	Synaptotagmin I; SytI; p65
Protein Family	ARF guanine-nucleotide exchange factor
UniProt Gene Name	SYT1
UniProt Synonym Gene Names	SVP65; SYT; SytI
NCBI Protein Information	synaptotagmin-1
NCBI Summary for SYT1	The synaptotagmins are integral membrane proteins of synaptic vesicles thought to serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis. Calcium binding to synaptotagmin-1 participates in triggering neurotransmitter release at the synapse (Fernandez-Chacon et al., 2001 [PubMed 11242035]).[supplied by OMIM, Jul 2010]
UniProt Comments for SYT1	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).
Research Articles on SYT1	**1.** that reduction in the synaptotagmin 1 level and presenilin 1-synaptotagmin 1 interactions in AD brain may present molecular underpinning of the pathogenic presenilin 1 conformation
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