

SYT3 Polyclonal Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP57381

Specification

SYT3 Polyclonal Antibody - Product Information

Application
Primary Accession

Reactivity Host Clonality Calculated MW Physical State

Immunogen

Epitope Specificity

Isotype **Purity**

affinity purified by Protein A

WB, IHC-P, IHC-F, IF, E

Q9BQG1

Rat, Pig, Dog, Bovine

Rabbit Polyclonal 63 KDa Liquid

KLH conjugated synthetic peptide derived

from human synaptotagmin-3

451-550/590

IqG

Buffer

0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION

Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane; Single-pass

membrane protein.

SIMILARITY Belongs to the synaptotagmin family.

Contains 2 C2 domains.

SUBUNIT Homodimer. Can also form heterodimers

with SYT6.

Important Note This product as supplied is intended for

research use only, not for use in human, therapeutic or diagnostic applications.

Background Descriptions

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 participates in triggering neurotransmitter release at the synapse. The first C2 domain mediates Ca(2+)-dependent phospholipid binding. The second C2 domain mediates interaction with Stonin 2. Synaptotagmin 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 Ca(2+)-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 Ca(2+)-independent manner; these are neurexins, syntaxin and AP2.

SYT3 Polyclonal Antibody - Additional Information

Gene ID 84258

Other Names



Synaptotagmin-3, Synaptotagmin III, SytlII, SYT3

Dilution

- WB~~1:1000<br \><span class</pre>
- ="dilution_IHC-P">IHC-P~~N/A<br \><span class
- ="dilution_IHC-F">IHC-F~~N/A<br \><span class
- ="dilution IF">IF \sim 1:50 \sim 200<br\>E \sim N/A

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

SYT3 Polyclonal Antibody - Protein Information

Name SYT3

Function

Ca(2+) sensor involved in Ca(2+)-dependent exocytosis of secretory vesicles through Ca(2+) and phospholipid binding to the C2 domain. Ca(2+) induces binding of the C2-domains to phospholipid membranes and to assembled SNARE-complexes; both actions contribute to triggering exocytosis (By similarity). Plays a role in dendrite formation by melanocytes (PubMed:23999003).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:P40748}; Single-pass membrane protein. Cytoplasmic vesicle, secretory vesicle membrane; Single-pass membrane protein

Tissue Location

Expressed in melanocytes (PubMed:23999003).

SYT3 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SYT3 Polyclonal Antibody - Images