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Synaptotagmin-2 Rabbit pAb

Catalog # AP98212

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	Q8N9I0
Other Accession	Q8N9I0
Predicted	Rat, Pig, Human, Mouse, Rabbit, Chicken, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	46872
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human synaptotagmin-2
Epitope Specificity	285-380/419
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the synaptotagmin family. Contains 2 C2 domains.
SUBUNIT	Homotetramer. Interacts with stonin 2. Interacts with SCAMP5.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Synaptotagmins, like SYT2, are integral membrane proteins of synaptic vesicles thought to serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis (Hilbush and Morgan, 1994 [PubMed 8058779]).[supplied by OMIM]

Additional Information

Gene ID	127833
Other Names	CMS7; CMS7A; CMS7B; MYSPC; SytII; IP4BP; mKIAA4194; RATSYNII; SYNII; SYT2_HUMAN; SYT2; Synaptotagmin II (SytII); SYT2_MOUSE; Inositol polyphosphate-binding protein (IP4-binding protein | IP4BP); SYT2_RAT; synaptotagmin 2; synaptotagmin II
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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.

Protein Information

Name	SYT2 (HGNC:11510)

Function	Exhibits calcium-dependent phospholipid and inositol polyphosphate binding properties (By similarity). May have a regulatory role in the membrane interactions during trafficking of synaptic vesicles at the active zone of the synapse (By similarity). Plays a role in dendrite formation by melanocytes (PubMed:23999003).
Cellular Location	Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane {ECO:0000250|UniProtKB:P29101}; Single-pass membrane protein. Cytoplasmic vesicle, secretory vesicle, chromaffin granule membrane {ECO:0000250|UniProtKB:P21707}; Single-pass membrane protein {ECO:0000250|UniProtKB:P29101}. Cytoplasm {ECO:0000250|UniProtKB:P29101}
Tissue Location	Expressed at the neuromuscular junction (PubMed:33659639). Expressed in melanocytes (PubMed:23999003)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.