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SYT2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13771c

Product Information

Application	WB, E
Primary Accession	Q8N9I0
Other Accession	P29101, P46097, NP_796376.2, NP_001129976.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB33875
Calculated MW	46872
Antigen Region	243-272

Additional Information

Gene ID	127833
Other Names	Synaptotagmin-2, Synaptotagmin II, SytII, SYT2
Target/Specificity	This SYT2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 243-272 amino acids from the Central region of human SYT2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SYT2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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)

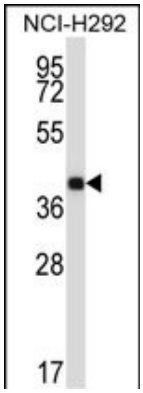
Background

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]).

References

Young, S.M. Jr., et al. Neuron 63(4):482-496(2009)
Han, C., et al. J. Immunol. 182(5):2986-2996(2009)
Laohavisit, A., et al. Plant Cell 21(2):479-493(2009)
Shi, J., et al. Biochem. Biophys. Res. Commun. 374(2):331-335(2008)
Lee, B.H., et al. Mol. Cell 15(5):741-751(2004)

Images



SYT2 Antibody (Center) (Cat. #AP13771c) western blot analysis in NCI-H292 cell line lysates (35ug/lane).This demonstrates the SYT2 antibody detected the SYT2 protein (arrow).

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