

SYT11 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP50627

Product Information

Application	WB
Primary Accession	Q9BT88
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Calculated MW	48297

Additional Information

Gene ID	23208
Other Names	Synaptotagmin-11, Synaptotagmin XI, SytXI, SYT11, KIAA0080
Dilution	WB~~ 1:1000
Format	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.
Storage Conditions	-20°C

Protein Information

Name	SYT11 (HGNC:19239)
Synonyms	KIAA0080
Function	Synaptotagmin family member involved in vesicular and membrane trafficking which does not bind Ca ²⁺ . Inhibits clathrin- mediated and bulk endocytosis, functions to ensure precision in vesicle retrieval. Plays an important role in dopamine transmission by regulating endocytosis and the vesicle-recycling process. Essential component of a neuronal vesicular trafficking pathway that differs from the synaptic vesicle trafficking pathway but is crucial for development and synaptic plasticity. In macrophages and microglia, inhibits the conventional cytokine secretion, of at least IL6 and TNF, and phagocytosis. In astrocytes, regulates lysosome exocytosis, mechanism required for the repair of injured astrocyte cell membrane (By similarity). Required for the ATP13A2-mediated regulation of the autophagy-lysosome pathway (PubMed: 27278822).
Cellular Location	Cytoplasmic vesicle membrane; Single-pass membrane protein. Perikaryon {ECO:0000250 UniProtKB:Q9R0N3}. Golgi apparatus, trans-Golgi network membrane {ECO:0000250 UniProtKB:Q9R0N3}; Single-pass membrane

protein {ECO:0000250|UniProtKB:Q9R0N3}. Recycling endosome membrane {ECO:0000250|UniProtKB:Q9R0N3}; Single-pass membrane protein {ECO:0000250|UniProtKB:Q9R0N3}. Lysosome membrane {ECO:0000250|UniProtKB:Q9R0N3}; Single-pass membrane protein {ECO:0000250|UniProtKB:Q9R0N3}. Cytoplasmic vesicle, phagosome {ECO:0000250|UniProtKB:Q9R0N3}. Cell projection, axon. Cell projection, dendrite. Postsynaptic density {ECO:0000250|UniProtKB:Q9R0N3}. Recycling endosome membrane {ECO:0000250|UniProtKB:O08835}; Single-pass membrane protein {ECO:0000250|UniProtKB:O08835}. Cytoplasmic vesicle, clathrin-coated vesicle membrane {ECO:0000250|UniProtKB:O08835}; Single-pass membrane protein {ECO:0000250|UniProtKB:O08835}. Perikaryon. Note=Localized in vesicles that travels in axonal and dendritic shafts in both anterograde and retrograde directions. In macrophages and microglia, recruited in phagosomes at early stages of phagocytosis (By similarity). Found in the core of the Lewy bodies in the brain of sporadic Parkinson disease patients (PubMed:12925569). {ECO:0000250|UniProtKB:Q9R0N3, ECO:0000269|PubMed:12925569}

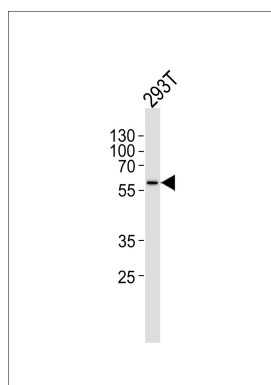
Background

May be involved in Ca(2+)-dependent exocytosis of secretory vesicles through Ca(2+) and phospholipid binding to the C2 domain or may serve as Ca(2+) sensors in the process of vesicular trafficking and exocytosis (By similarity).

References

Nomura N.,et al.DNA Res. 1:223-229(1994).
Ohara O.,et al.Submitted (JAN-2005) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).
Gregory S.G.,et al.Nature 441:315-321(2006).

Images



Western blot analysis of lysate from 293T cell line,using SYT11 Antibody(AP50627). AP50627 was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysate at 35ug.

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