

SYT11 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50627**Specification**

SYT11 Antibody - Product Information

Application	WB
Primary Accession	Q9BT88
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	48 KDa
Antigen Region	195-224

SYT11 Antibody - Additional Information**Gene ID** 23208**Other Names**

Synaptotagmin-11, Synaptotagmin XI, SytXI, SYT11, KIAA0080

Dilution

WB~~ 1:1000

FormatRabbit IgG in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.**Storage Conditions**

-20°C

SYT11 Antibody - Protein Information**Name** SYT11 ([HGNC:19239](#))**Synonyms** KIAA0080**Function**

Synaptotagmin family member involved in vesicular and membrane trafficking which does not bind Ca²⁺. 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

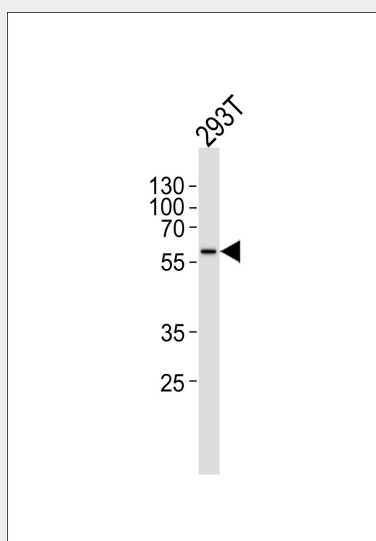
Cytoplasmic vesicle membrane; Single-pass membrane protein. Perikaryon {ECO:0000250|UniProtKB:Q9R0N3}. Golgi apparatus, trans-Golgi network membrane {ECO:0000250|UniProtKB:Q9R0N3}; Single-pass membrane protein {ECO:0000250|UniProtKB:Q9R0N3}. Recycling endosome membrane {ECO:0000250|UniProtKB:Q9R0N3}; 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}

SYT11 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 Cytometry](#)
- [Cell Culture](#)

SYT11 Antibody - 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.

SYT11 Antibody - 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).

SYT11 Antibody - 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).