

Synaptotagmin XI Polyclonal Antibody
Catalog # AP72670**Specification**

Synaptotagmin XI Polyclonal Antibody - Product Information

Application	WB
Primary Accession	Q9BT88
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

Synaptotagmin XI Polyclonal Antibody - Additional Information**Gene ID** 23208**Other Names**

SYT11; KIAA0080; Synaptotagmin-11; Synaptotagmin XI; SytXI

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

Synaptotagmin XI Polyclonal Antibody - 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

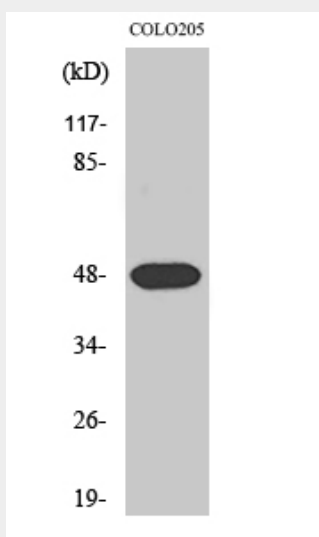
{ECO:0000250|UniProtKB:Q9R0N3}; Single-pass membrane protein
{ECO:0000250|UniProtKB:Q9R0N3}. Recycling endosome membrane
{ECO:0000250|UniProtKB:Q9R0N3}; Single-pass membrane protein
{ECO:0000250|UniProtKB:Q9R0N3}. Lysosome membrane {ECO:0000250|UniProtKB:Q9R0N3};
Single-pass membrane protein {ECO:0000250|UniProtKB:Q9R0N3}. 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}

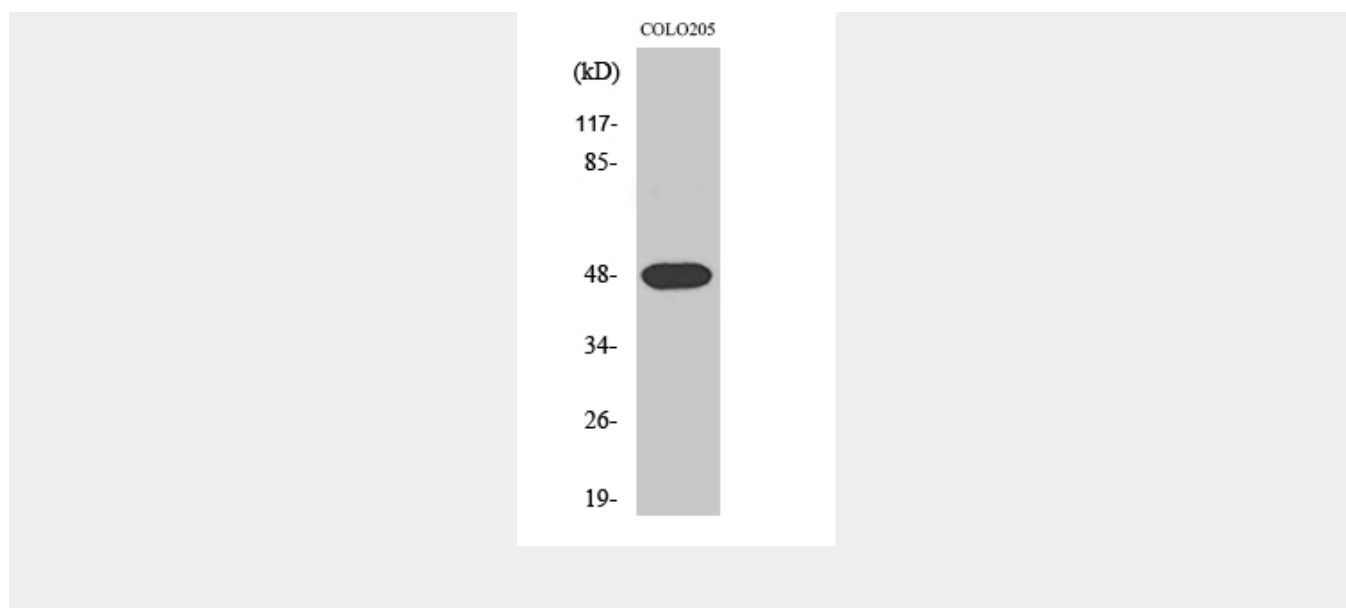
Synaptotagmin XI Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Synaptotagmin XI Polyclonal Antibody - Images





Synaptotagmin XI Polyclonal 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.