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[Marker Primary Antibody]

Rabbit Anti-Synaptopodin/FITC Conjugated antibody

Catalog Number: SL14026R-FITC

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Synaptopodin/FITC
Immunogen:	KLH conjugated synthetic peptide derived from human Synaptopodin
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	Flow-Cyt=1μg/Test IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human,Rat(predicted:Mouse,Dog,Cow,Horse,Rabbit)
Background:	background: Synaptopodin is an actin-associated protein that may play a role in actin-based cell shape and motility. May be essential for the formation of spine apparatuses in spines of telencephalic neurons, involved in synaptic plasticity. The name synaptopodin derives from the protein's associations with postsynaptic densities and dendritic spines and with renal podocytes. **Subunit:** Interacts with BAIAP1. Interacts with actin. Interacts (via PPxY motifs) with WWC1 (via WW domains). **Subcellular Location:** Cytoplasm, cytoskeleton. Cell junction, tight junction. Perikaryon. Cell projection, dendritic spine. Cell junction, synapse, postsynaptic cell membrane, postsynaptic density. Cell junction, synapse. Note=Localized at the tight junction of cells. In brain, localized to the postsynaptic densities and in the perikarya. Asssociated with dendritic spines of a subset of synapses. **Tissue Specificity:** Expressed in brain, namely in the olfactory bulb, cerebral

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	cortex, striatum, and hippocampus, but not in the cerebellum. Also expressed in the podocytes of kidney glomeruli. In the hippocampus, mainly expressed in the principal cell layer of the dentate gyrus and Ammon's horn. **Similarity:** Belongs to the synaptopodin family. **Database links:** **Entrez Gene:** 11346 Human **Entrez Gene:** 104027 Mouse **Entrez Gene:** 60324 Rat Omim: 608155 Human **SwissProt:** Q8N3V7 Human **SwissProt:** Q8CC35 Mouse **SwissProt:** Q9Z327 Rat **Unigene:** 435228 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications. synaptopodin is a protein coupled with actin microfilaments, rich in proline, and is a linear protein. In animals, it is expressed in podocytes of the renal glomerulus and synapses of the hindbrain. synaptopodin is considered a specific differentiation and maturation Maker of podocytes.