SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Synaptopodin antibody

Catalog Number: SL14026R

FOR RESEARCH USE ONLY

[DATASHEET]

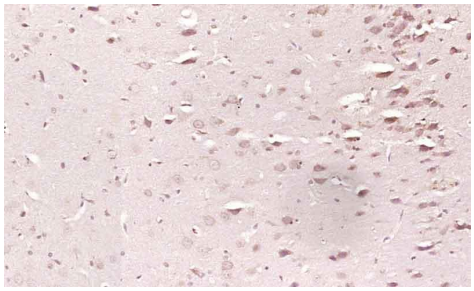
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Synaptopodin
Immunogen:	KLH conjugated synthetic peptide derived from human Synaptopodin: 681-780/929
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Preservative: 15mM Sodium Azide, Constituents: 1% BSA, 1M PBS, pH 7.4 Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 Flow-Cyt=1μg/Test （Paraffin sections need antigen repair） 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)
Predicted MW.:	100kDa
Subcellular Location:	cytoplasmic The cell membrane
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

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

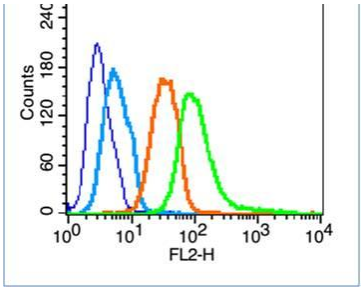
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	postsynaptic densities and in the perikarya. Asssociated with dendritic spines of a subset of synapses. **Tissue Specificity:** Expressed in brain, namely in the olfactory bulb, cerebral cortex, striatum, and hippocampus, but not in the cerebellum. 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 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.

[VALIDATION IMAGES]



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (Synaptopodin) Polyclonal Antibody, Unconjugated (SL14026R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.



Blank control (blue line): U-87MG (fixed with 70% ethanol (Overnight at 4°C) and then permeabilized with 0.1% PBS-Tween for 20 min at room temperature).
Primary Antibody (green line): Rabbit Anti-Synaptopodin antibody (SL3152R), Dilution: 0.2 µg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody (white blue line): Goat anti-rabbit IgG-PE,Dilution: 1µg /test.

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