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Synaptopodin Recombinant Rabbit mAb

Catalog # AP97053

Product Information

Application	WB, IHC-P, IHC-F, IF
Primary Accession	Q8CC35
Other Accession	Q8CC35
Reactivity	Mouse
Host	Rabbit
Clonality	Recombinant
Calculated MW	99552
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse Synaptopodin
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the synaptopodin family.
SUBUNIT	Interacts with BAIAP1. Interacts with actin (By similarity). Interacts (via PPxY motifs) with WWC1 (via WW domains).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Other Names	SYNPO1; 9030217H17Rik; 9130229N11; 9330140I15Rik; SYNPO_HUMAN; SYNPO; KIAA1029; SYNPO_MOUSE; SYNPO_RAT; synaptopodin
Dilution	WB=1:500-1000,IHC-P=1:200-800,IHC-F=1:200-800,IF=1:200-800
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	Synpo
Synonyms	Kiaa1029
Function	Actin-associated protein that may play a role in modulating actin-based

	shape and motility of dendritic spines and renal podocyte foot processes. Seems to be essential for the formation of spine apparatuses in spines of telencephalic neurons, which is involved in synaptic plasticity.
Cellular Location	Cytoplasm, cytoskeleton. Cell junction, tight junction. Perikaryon Cell projection, dendritic spine. Postsynaptic density. Synapse Cytoplasm, cytosol {ECO:0000250|UniProtKB:Q8N3V7}. Note=Localized at the tight junction of cells. In brain, localized to the postsynaptic densities and in the perikarya. Associated with dendritic spines of a subset of synapses (PubMed:9314539).
Tissue Location	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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.