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SYNPO Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14341b

Product Information

Application	WB, E
Primary Accession	Q8N3V7
Other Accession	NP_001103444.1, NP_001159681.1, NP_001159680.1
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31308
Calculated MW	99463
Antigen Region	654-683

Additional Information

Gene ID	11346
Other Names	Synaptopodin, SYNPO, KIAA1029
Target/Specificity	This SYNPO antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 654-683 amino acids from the C-terminal region of human SYNPO.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	SYNPO Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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 (By similarity).
Cellular Location	Cytoplasm, cytoskeleton {ECO:0000250|UniProtKB:Q8CC35}. Cell junction, tight junction {ECO:0000250|UniProtKB:Q8CC35}. Perikaryon {ECO:0000250|UniProtKB:Q8CC35}. Cell projection, dendritic spine {ECO:0000250|UniProtKB:Q8CC35}. Postsynaptic density {ECO:0000250|UniProtKB:Q8CC35}. Synapse {ECO:0000250|UniProtKB:Q8CC35} Cytoplasm, cytosol. 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. {ECO:0000250|UniProtKB:Q8CC35}
Tissue Location	Expressed in cerebral cortex.

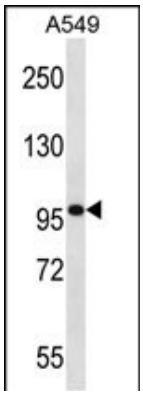
Background

Synaptopodin is an actin-associated protein that may play a role in actin-based cell shape and motility. The name synaptopodin derives from the protein's associations with postsynaptic densities and dendritic spines and with renal podocytes (Mundel et al., 1997 [PubMed 9314539]).[supplied by OMIM].

References

Kim, E.Y., et al. Am. J. Physiol. Renal Physiol. 299 (3), F594-F604 (2010) :
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Dai, S., et al. Nephrol. Dial. Transplant. 25(3):824-835(2010)
Duning, K., et al. J. Am. Soc. Nephrol. 19(10):1891-1903(2008)
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Images



SYNPO Antibody (C-term) (Cat. #AP14341b) western blot analysis in A549 cell line lysates (35ug/lane).This demonstrates the SYNPO antibody detected the SYNPO protein (arrow).

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