

AKAP9 Polyclonal Antibody

Catalog Number36-0300

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Published species	Rat, Insect, Not Applicable
Class	Polyclonal	Tested Applications	
Type	Antibody	ELISA (ELISA)	Dilution * Assay-dependent
Immunogen	Synthetic peptide derived from the C-terminal region of the human Yotiao protein.	Immunoprecipitation (IP)	Assay-dependent
		Western Blot (WB)	Assay-dependent
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Western Blot (WB)	See 2 publications below
Concentration	0.25 mg/mL	Immunoprecipitation (IP)	See 1 publications below
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	

Background/Target Information

The A-kinase anchor proteins are a group of structurally diverse proteins which have the common function of binding to the regulatory subunit of protein kinase A and confining the holoenzyme to discrete locations within the cell. This gene encodes a member of the AKAP family. Alternate splicing of this gene results in at least two isoforms that localize to the centrosome and the Golgi apparatus, and interact with numerous signaling proteins from multiple signal transduction pathways. These signaling proteins include type II protein kinase A, serine/threonine kinase protein kinase N, protein phosphatase 1, protein phosphatase 2a, protein kinase C-epsilon and phosphodiesterase 4D3.

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PubMed References For AKAP9 Polyclonal Antibody

2 Western Blot References

Species / Dilution	Summary
	36-0300 was used in western blot to analyze selective partitioning into complexes and supercomplexes during synapse maturation by NMDA receptors
Not Applicable / Not Cited	Nature communications ( 2016; 7: ) <b>"NMDA receptors are selectively partitioned into complexes and supercomplexes during synapse maturation."</b> Author(s):Frank RA,Komiyama NH,Ryan TJ,Zhu F,O'Dell TJ,Grant SG PubMed Article URL: <a href="http://dx.doi.org/10.1038/ncomms11264">http://dx.doi.org/10.1038/ncomms11264</a>
Rat / Not Cited	The Journal of cell biology ( 2005; 169: 657) <b>"Junctional membrane inositol 1,4,5-trisphosphate receptor complex coordinates sensitization of the silent EGF-induced Ca2+ signaling."</b> Author(s):Hur EM,Park YS,Huh YH,Yoo SH,Woo KC,Choi BH,Kim KT PubMed Article URL: <a href="http://dx.doi.org/10.1083/jcb.200411034">http://dx.doi.org/10.1083/jcb.200411034</a>

1 Immunoprecipitation References

Species / Dilution	Summary
Rat / Not Cited	The Journal of biological chemistry ( 2004; 279: 19375) <b>"Association of type 1 inositol 1,4,5-trisphosphate receptor with AKAP9 (Yotiao) and protein kinase A."</b>
Insect / Not Cited	Author(s):Tu H,Tang TS,Wang Z,Bezprozvanny I PubMed Article URL: <a href="http://dx.doi.org/10.1074/jbc.M313476200">http://dx.doi.org/10.1074/jbc.M313476200</a>

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