AKAP5 (D28G3) Rabbit mAb





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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 79	Source/Isotype: Rabbit IgG	UniProt ID: #P24588	Entrez-Gene Id: 9495		
Product Usage Information		Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sensi	cificity/Sensitivity AKAP5 (D28G3) Rabbit mAb recognizes endogenous levels of total AKAP5 protein. This antibody not cross-react with other AKAP family proteins.		s antibody does					
Source / Purifica	ce / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding t residues surrounding Arg383 of human AKAP5 protein.				rresponding to			
Background	AKAPs (A-kinase anchoring proteins), as their name implies, are a family of scaffolding proteins that bind regulatory subunits of Protein Kinase A (PKA) thus localizing PKA activity to distinct regions of t cell (1). Beyond a common amphipathic alpha helix that is responsible for recruiting the PKA regular subunit (RIa, RIIa, RIβ, or RIIβ), individual AKAPs contain additional domains responsible for the recruitment of additional signaling proteins (phosphodiesterases, phosphatases, cytoskeletal components, other kinases, etc.) or restricting AKAP to a specific subcellular location (1). AKAP5 (als known as P75, AKAP75, or AKAP79) is predominantly expressed in neuronal tissues and cells where serves to localize type II PKA to post-synaptic densities (2-4). AKAP5 specifically binds to the regulat subunit of PKAIIβ, anchoring the enzyme to the plasma membrane and sites of cytoskeletal/membri junctions (4-5). The other binding domains of AKAP5 have been shown to interact with calmodulin, PP2B, and calcineurin suggesting that AKAP5 may act to coordinate the cAMP- and Ca ²⁺ -sensing pathways in various cell types (5-8).					g proteins that net regions of the he PKA regulatory ible for the oskeletal (1). AKAP5 (also nd cells where it to the regulatory keletal/membrane h calmodulin, a ²⁺ -sensing		
Background References		 Schwartz, J.H. (2001) <i>Proc Natl Acad Sci U S A</i> 98, 13482-4. Bregman, D.B. et al. (1991) <i>J Biol Chem</i> 266, 7207-13. Hirsch, A.H. et al. (1992) <i>J Biol Chem</i> 267, 2131-4. Carr, D.W. et al. (1992) <i>J Biol Chem</i> 267, 16816-23. Glantz, S.B. et al. (1993) <i>J Biol Chem</i> 268, 12796-804. Klauck, T.M. et al. (1996) <i>Science</i> 271, 1589-92. Sarkar, D. et al. (1984) <i>J Biol Chem</i> 259, 9840-6. Coghlan, V.M. et al. (1995) <i>Science</i> 267, 108-11. 						
Species Reactivi	ty	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.			5% w/v BSA, 1X					
Applications Key	/	W: Western Blotting						
Cross-Reactivity	Key	H: Human						
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