

CaMKI-δ Antibody



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Applications: W	Reactivity: H R	Sensitivity: Endogenous	MW (kDa): 43	Source/Isotype: Rabbit	UniProt ID: #Q8IU85	Entrez-Gene Id: 57118
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 and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		CaMKI- δ Antibody detects endogenous levels of total CamKI- δ protein. This antibody may detect other isoforms of CaMKI.				
Species predicted to react based on 100% sequence homology		Mouse				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to human CaMKI-δ. Antibodies are purified by peptide affinity chromatography.				
Background		intracellular Ca ²⁺ , incl downstream substrat- is present in most cell cytoskeletal organizat CaMKII is also ubiquit activation of mitochol important neuronal fu modulation of ion cha plasticity, learning and CaMKKs and is primal	udes CaMKI, CaMKi e of CaMKK and has l types and may be tion, axonal growth cously expressed in ndrial biogenesis in unctions, including annel activity, cellula d memory, and gen rily restricted to the	CaMK) family, which is act. CaMKIV, and CaMKI-α, Commons: CaMKI-α, Commons commons commons cell types. While moust cell types. While moustle hypertrophy respectively respectively cell morphons cell types. Call morphons can capte so fine captes of neurons. Call nucleus of neurons captes as captes and captes as capt	nases (CaMKKs) (1,2 aMKI-β, CaMKI-γ, a tions, including trar term potentiation i uscular CaMKII has ponse, neuronal Ca sis, neurotransmitt blogy and neurite e MKI, CaMKIV is also MKIV regulates gen	2). CaMKI is a nd CaMKI of CaMKI of CaMKI of CaMKI of CaMKI of Cambridge of Cambrid
		CaMKI- δ translocates to the nucleus upon intracellular Ca ²⁺ influx and is activated through phosphorylation of Thr180 by CaMKK (9).				
Background References		 Chin, E.R. (2004) <i>Proc. Nutr. Soc.</i> 63, 279-286. Mizuno, K. and Giese, K.P. (2005) <i>J. Pharmacol. Sci.</i> 98, 191-197. Wayman, G.A. et al. (2004) <i>J. Neurosci.</i> 24, 3786-3794. Gardner, H.P. et al. (2000) <i>Genomics</i> 63, 279-288. Verploegen, S. et al. (2005) <i>Blood</i> 106, 1076-1083. Takemoto-Kimura, S. et al. (2003) <i>J. Biol. Chem.</i> 278, 18597-18605. Yamauchi, T. (2005) <i>Biol. Pharm. Bull.</i> 28, 1342-1354. Wei, F. et al. (2002) <i>Nat. Neurosci.</i> 5, 573-579. Sakagami, H. et al. (2005) <i>Eur. J. Neurosci.</i> 22, 2697-2707. 				
Species Reactivity		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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human R: Rat

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