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Phospho-CaMKK2 (Ser511) Antibody



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Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 68	Source/Isotype: Rabbit	#Q96RR4	Entrez-Gene Id: 10645		
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/Sensi	tivity	Phospho-CaMKK2 (Ser511) Antibody recognizes endogenous levels of CaMKK2 protein only when phosphorylated at Ser511.						
Species predicte based on 100% s homology	d to react equence	Monkey						
Source / Purifica	ition	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser511 of human CaMKK2 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		Calcium/Calmodulin-dependent Protein Kinase Kinase 2 (CaMKK2) is a member of the CaMK family that contains a central Ser/Thr kinase domain followed by a regulatory domain consisting of overlapping autoinhibitory and CaM-binding regions (1). CaMKK2 can be distinguished from other CaMK family members by the presence of a unique Pro/Arg/Gly-rich insert following the ATP-binding domain (2). CaMKK2 phosphorylates CaMKI at Thr177 and CaMKIV at Thr200 (3). CaMKK2 also phosphorylates AMPKα in response to calcium (4). CaMKK2 has been implicated in long-term memory formation (5) and adipocyte development (6). CaMKK2 is phosphorylated at Ser511 by death-associated protein kinase (DAPK) in a signaling cascade thought to be involved in neuronal death (7).						
Background Ref	ackground References 1. Tokumitsu, H. et al. (1997) Biochemistry 36, 12823-7. 2. Tokumitsu, H. et al. (1995) J Biol Chem 270, 19320-4. 3. Anderson, K.A. et al. (1998) J Biol Chem 273, 31880-9. 4. Hawley, S.A. et al. (2005) Cell Metab 2, 9-19. 5. Peters, M. et al. (2003) J Neurosci 23, 9752-60. 6. Lin, F. et al. (2011) Endocrinology 152, 3668-79. 7. Schumacher, A.M. et al. (2004) Biochemistry 43, 8116-24.							
Species Reactivi	ty	Species reactivity is de	etermined by testing	g in at least one approve	d application (e.g.,	western blot).		
Western Blot Bu	ffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications Key	/	W: Western Blotting						
Cross-Reactivity	Кеу	H: Human M: Mouse R: Rat						
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