Store at -20C

#16810

## CaMKK2 (D8D4D) Rabbit mAb



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Applications: W	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 68, 70	<b>Source/Isotype:</b> Rabbit IgG	UniProt ID: #Q96RR4	<b>Entrez-Gene Id:</b> 10645		
Product Usage Information	9	<b>Application</b> Western Blotting			<b>Dilution</b> 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/Sensitivity		CaMKK2 (D8D4D) Rabbit mAb recognizes endogenous levels of total CaMKK2 protein.						
Source / Purifi	ication	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly228 of human CaMKK2 protein.				prresponding to		
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 R	eferences	<ol> <li>Tokumitsu, H. et al. (1997) <i>Biochemistry</i> 36, 12823-7.</li> <li>Tokumitsu, H. et al. (1995) <i>J Biol Chem</i> 270, 19320-4.</li> <li>Anderson, K.A. et al. (1998) <i>J Biol Chem</i> 273, 31880-9.</li> <li>Hawley, S.A. et al. (2005) <i>Cell Metab</i> 2, 9-19.</li> <li>Peters, M. et al. (2003) <i>J Neurosci</i> 23, 9752-60.</li> <li>Lin, F. et al. (2011) <i>Endocrinology</i> 152, 3668-79.</li> <li>Schumacher, A.M. et al. (2004) <i>Biochemistry</i> 43, 8116-24.</li> </ol>						
Species Reacti	ivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot I	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 K	(ey	W: Western Blotting						
Cross-Reactivi	ty Key	H: Human M: Mouse R: Rat						
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