e at -20C	CaMKIV Antibody			
Store at		Orders:	877-616-CELL (2355) orders@cellsignal.com	
32		Support:	877-678-TECH (8324)	
#4032		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane Danvers Ma	ssachusetts 01923 USA	

For Research Use Only. Not for Use in Diagnostic Procedures.

		Sensitivity: Endogenous	MW (kDa): 58, 60: human. 61, 63: rat and mouse.	Source: Rabbit	UniProt ID: #Q16566	Entrez-Gene Id: 814		
Product Usage	Applica	ation			Dilution			
Information	Wester	n Blotting			1:1000			
	Immune	oprecipitation			1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity / Sensitivity	CaMKIV	CaMKIV Antibody detects total levels of endogenous CaMKIV.						
Source / Purification	-	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide around amino acid 282-300 of human CaMKIV. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	related t has cata releasin autopho	CaMKIV is an important member of calcium/calmodulin-activated kinases. CaMKIV signaling has been related to long-term neural potentiation and memory (1,2), as well as T-cell receptor signaling (3). CaMKIV has catalytic and regulatory domains. The Ca2+/calmodulin-dependent CaMKK phosphorylates CaMKIV, releasing the autoinhibitory effect and thus activating the kinase (4-6). The activated CaMKIV further autophosphorylates itself at Thr196 (or Thr200 in human) to render the kinase constitutively active (5). The threonine phosphorylation state of CaMKIV can be downregulated by PP2A dephosphorylation.						
Background Reference	2. Kasał 3. Yu, C. 4. Chatil	 Kang, H. et al. (2001) <i>Cell</i> 106, 771-783. Kasahara, J. et al. (2001) <i>J. Biol. Chem.</i> 276, 24044-24050. Yu, C.T. et al. (2001) <i>J. Immunol.</i> 166, 284-292. Chatila, T. et al. (1996) <i>J. Biol. Chem.</i> 271, 21542-21548. Means, A.R. (2000) <i>Mol. Endocrinol.</i> 14, 4-13. 						
Species Reactivity	Species r	eactivity is det	ermined by testing in	at least one appro	oved application (e.g., we	estern 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	WB: We	WB: Western Blotting IP: Immunoprecipitation						
Cross-Reactivity Key	X: Xenop	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected						
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