CK1ε Antibody	
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For Research Use Only. Not for Use in Diagnostic Procedures.	

Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 43	Source/Isotype: Rabbit	UniProt ID: #P49674	Entrez-Gene Id: 1454	
Product Usage Information	9	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/Sei	nsitivity	CK1ε Antibody recognizes endogenous levels of total CK1ε protein.					
Source / Purifi	Ource / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic peptide correspond residues surrounding Ala349 of human CK1ɛ protein. Antibodies are purified by protein A and p affinity chromatography.						
BackgroundCasein Kinase I (CK1 or CKI) is the name given to a family of kinases consisting of multiple is a', β, γ1-3, δ, and ε) with a conserved N-terminal kinase domain and a variable C-terminal si that determines subcellular localization and regulates enzyme activity (1-3). Indeed, multiple autophosphorylation sites have been identified near the C terminus of CK1ε (3). This ubiqui expressed family of protein kinases has been implicated in multiple processes, including DI cell morphology, and Wnt signaling (4). Perhaps the best understood role of CK1 is to provi priming phosphorylation of β-catenin at Ser45 to produce the consensus GSK-3 substrate n X-X-pS) (4).						ultiple isoforms (a, minal sequence multiple inhibitory a ubiquitously ding DNA repair, o provide the strate motif (S/T-X-	
	CK1ε is involved in many cellular processes, such as differentiation (5-7), cell growth and apopto and control of the circadian rhythm (9,10).						
Background R	eferences	 Gross, S.D. and Anderson, R.A. (1998) <i>Cell Signal</i> 10, 699-711. Vancura, A. et al. (1994) <i>J Biol Chem</i> 269, 19271-8. Gietzen, K.F. and Virshup, D.M. (1999) <i>J Biol Chem</i> 274, 32063-70. Polakis, P. (2002) <i>Curr Biol</i> 12, R499-R501. Okamura, A. et al. (2004) <i>Blood</i> 103, 2997-3004. Swiatek, W. et al. (2006) <i>J Biol Chem</i> 281, 12233-41. Bischof, J. et al. (2011) <i>PLoS One</i> 6, e20857. Brockschmidt, C. et al. (2008) <i>Gut</i> 57, 799-806. Keesler, G.A. et al. (2000) <i>Neuroreport</i> 11, 951-5. Meng, Q.J. et al. (2008) <i>Neuron</i> 58, 78-88. 					
Species React	ivity	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot	Buffer	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 k	(ey	W: Western Blotting					
Cross-Reactivi	ity Key	H: Human M: Mouse R: Rat Mk: Monkey					
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