

CK1δ Antibody



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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 44	Source/Isotype: Rabbit	UniProt ID: #P48730	Entrez-Gene Id: 1453
Product Usage Information	!	Application Western Blotting			Dilution 1:1000	
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		CK1 δ Antibody recognizes endogenous levels of total CK1 δ protein. This antibody does not cross-react with CK1 ϵ .				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human CK18 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Casein Kinase I (CK1 or CKI) is the name given to a family of kinases consisting of multiple isoforms (α , α ', β , γ 1-3, δ , and ϵ) with a conserved N-terminal kinase domain and a variable C-terminal sequence that determines subcellular localization and regulates enzyme activity (1-3). Indeed, multiple inhibitory autophosphorylation sites have been identified near the C terminus of CK1 ϵ (3). This ubiquitously expressed family of protein kinases has been implicated in multiple processes, including DNA repair, cell morphology, and Wnt signaling (4). Perhaps the best understood role of CK1 is to provide the priming phosphorylation of β -catenin at Ser45 to produce the consensus GSK-3 substrate motif (S/T-X-X-X-pS) (4).				
		CK1δ is involved in ma		es such as differentiatio	n (5), cell growth ar	nd apoptosis (6-8),
Background References		 Gross, S.D. and Anderson, R.A. (1998) Cell Signal 10, 699-711. Vancura, A. et al. (1994) J Biol Chem 269, 19271-8. Gietzen, K.F. and Virshup, D.M. (1999) J Biol Chem 274, 32063-70. Polakis, P. (2002) Curr Biol 12, R499-R501. Bryja, V. et al. (2007) J Cell Sci 120, 586-95. Knippschild, U. et al. (2005) Onkologie 28, 508-14. Knippschild, U. et al. (1997) Oncogene 15, 1727-36. Brockschmidt, C. et al. (2008) Gut 57, 799-806. Vanselow, K. and Kramer, A. (2007) Cold Spring Harb Symp Quant Biol 72, 167-76. 				
Species Reacti	vity	Species reactivity is de	termined 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 Key W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

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