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CK1 Antibody



Orders: 877-616-CELL (2355)

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

Applications: WB, W-S	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 34	Source: Rabbit	UniProt ID: #P48729	Entrez-Gene Id 1452	
Product Usage Information	Ap	pplication			Dilution		
	We	estern Blotting			1:1000		
	Sir	mple Western™			1:10 - 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 / Sensitiv		This antibody detects endogenous levels of total casein kinase I-alpha 1 protein. This antibody may cross-react with casein kinase I-epsilon, casein kinase I-delta, and casein kinase I-gamma.					
Species predicted to react based on 100% sequence homology	6	cken, Xenopus, Zeb	rafish, Bovine				
Source / Purification	ami	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acid residues near the middle of human casein kinase I-alpha 1. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	β, γ dete aute exp mod	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).					
Background Referer		 Gross, S.D. and Anderson, R.A. (1998) Cell Signal 10, 699-711. Vancura, A. et al. (1994) J Biol Chem 269, 19271-8. 					

2. Vancura, A. et al. (1994) *J Biol Chem* 269, 19271-8

3. Gietzen, K.F. and Virshup, D.M. (1999) *J Biol Chem* 274, 32063-70.

4. Polakis, P. (2002) Curr Biol 12, R499-R501.

Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western 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: Western Blotting W-S: Simple Western™

Cross-Reactivity Key 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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