#12417 Store at -20C

## CK1δ Antibody



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<b>Applications:</b> WB	Reactivity: H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 44	Source: Rabbit	UniProt ID: #P48730	Entrez-Gene Id: 1453	
Product Usage Information	Application			Dilution			
o.manon	We	estern Blotting			1:1000		
Storage	•	plied in 10 mM sodi C. Do not aliquot the	\(\frac{1}{2}\)	5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at –			
Specificity / Sensiti		CK1 $\delta$ Antibody recognizes endogenous levels of total CK1 $\delta$ protein. This antibody does not cross-react with CK1 $\epsilon$ .					
Source / Purification	resi	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human CK1 $\delta$ protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	β, y dete auto exp mor	Casein Kinase I (CK1 or CKI) is the name given to a family of kinases consisting of multiple isoforms ( $\alpha$ , $\alpha$ ', $\beta$ , $\gamma$ 1-3, $\delta$ , and $\epsilon$ ) 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 $\epsilon$ (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 $\beta$ -catenin at Ser45 to produce the consensus GSK-3 substrate motif (S/T-X-X-X-pS) (4).					
		CK1 $\delta$ is involved in many cellular processes such as differentiation (5), cell growth and apoptosis (6-8), and control of the circadian rhythm (9).					
Background Refere	2. V 3. G 4. P 5. B 6. K 7. K	ancura, A. et al. (19 ietzen, K.F. and Vir olakis, P. (2002) <i>Cu</i> ryja, V. et al. (2007) nippschild, U. et al. nippschild, U. et al.	94) J Biol Chem 26 shup, D.M. (1999) rr Biol 12, R499-R5 J Cell Sci 120, 586 (2005) Onkologie 2 (1997) Oncogene 2				

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

9. Vanselow, K. and Kramer, A. (2007) Cold Spring Harb Symp Quant Biol 72, 167-76.

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 WB: Western Blotting

**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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information.

**Limited Uses** 

## CK18 Antibody (#12417) Datasheet Without Images Cell Signaling Technology

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