Store at -200

Phospho-PP1α (Thr320) Antibody



Orders:

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Applications: WB, IHC-P	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 38	Source: Rabbit	UniProt ID: #P62136	Entrez-Gene Id: 5499	
Product Usage Information	Αŗ	Application			Dilution		
	W	estern Blotting			1:1000		
	Im	munohistochemistry	/ (Paraffin)		1:50		
Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Storage 20°C. Do not aliquot the antibody.						glycerol. Store at –	
Specificity / Sensitivity		Phospho-PP1 α (Thr320) Antibody detects PP1 α only when phosphorylated at Thr320. This antibody may cross-react with the phosphorylated δ or γ isoforms of PP1.					
Source / Purification Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide correspondir to residues surrounding Thr320 of human PP1α. Antibodies are purified by protein A and peptide affinity chromatography.							
Background		Type 1 protein phosphatase (PP1), a serine/threonine phosphatase, is highly conserved in eukaryotic cells. Four isoforms of PP1 have been characterized: PP1 α , PP1 β , PP1 γ 1 and PP1 γ 2 (1). Involvement in cell cycle regulation is one of the biological functions of PP1 (1). It has been illustrated that PP1 dephosphorylates Rb and cdc25 during mitosis (2,3). A cell cycle-dependent phosphorylation at Thr320 of PP1 α by cdc2 kinase inhibits PP1 α activity (4).					
 Rubin, E. et al. (1998) Front Biosci 3, D1209-19. Durfee, T. et al. (1993) Genes Dev 7, 555-69. Izumi, T. et al. (1992) Mol Biol Cell 3, 927-39. Kwon, Y.G. et al. (1997) Proc Natl Acad Sci U S A 94, 2168-73. 							

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 IHC-P: Immunohistochemistry (Paraffin)

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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