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PP5 Antibody


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

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 58	Source: Rabbit	UniProt ID: #P53041	Entrez-Gene Id: 5536
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Product Usage Information	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 / Sensitivity	PP5 Antibody detects endogenous levels of total PP5 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino-terminal sequence of human PP5. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	Protein phosphatase 5 (PP5) is a member of the serine/threonine phosphatase family that also includes PP1, PP2A and PP2B. PP5 uniquely contains an amino-terminal regulatory domain with three tetratricopeptide repeat (TPR) motifs and a carboxy-terminal catalytic domain (1-3). Through the TPR domain, PP5 interacts with a number of proteins and has been reported to be involved in diverse signal transduction pathways, including glucocorticoid receptor signaling, p53-mediated growth arrest, oxidative stress-mediated apoptosis and the response to ionizing radiation-induced DNA damage (4-8).	
Background References	1. Chen, M.X. and Cohen, P.T. (1997) <i>FEBS Lett.</i> 400, 136-140. 2. Andreeva, A.V. and Kutuzov, M.A. (1999) <i>Cell. Signal.</i> 11, 555-562. 3. Chinkers, M. <i>Trends Endocrinol. Metab.</i> 12, 28-32. 4. Zuo, Z. et al. (1998) <i>J. Biol. Chem.</i> 273, 12250-12258. 5. Morita, K. et al. (2001) <i>EMBO J.</i> 20, 6028-6036. 6. Silverstein, A.M. et al. (1997) <i>J. Biol. Chem.</i> 272, 16224-16230. 7. Ali, A. et al. (2004) <i>Genes Dev.</i> 18, 249-254. 8. Wechsler, T. et al. (2004) <i>Proc. Natl. Acad. Sci. USA</i> 101, 1247-1252.	

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
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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