

**#3722** Store at -20°C

## Pin1 Antibody


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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H M R Mk	Endogenous	18	Rabbit	#Q13526	5300

<b>Product Usage Information</b>	<b>Application</b> Western Blotting	<b>Dilution</b> 1:1000
<b>Storage</b>	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.	
<b>Specificity / Sensitivity</b>	Pin1 Antibody detects endogenous levels of total Pin1 protein. The antibody does not cross-react with other proteins.	
<b>Species predicted to react based on 100% sequence homology:</b>	Xenopus	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy-terminal residues of human Pin1. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	Pin1, a member of the parvulin family of peptidyl-prolyl isomerases (PPIase), has been implicated in the G2/M transition of the mammalian cell cycle (1-6). Pin1 is a small (18 kDa) protein with two distinct functional domains: an amino-terminal WW domain and a carboxy-terminal PPIase domain. Pin1 interacts with several mitotic phosphoproteins, including Plk1, cdc25C and cdc27, and is thought to act as a phosphorylation-dependent PPIase for these target molecules (7-9).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Lu, P. J. et al. (1999) <i>Science</i> 283, 1325-1328.</li> <li>2. Verdecia, M. A. et al. (2000) <i>Nat. Struct. Biol.</i> 7, 639-643.</li> <li>3. Lu, K. P. et al. (1996) <i>Nature</i> 380, 544-547.</li> <li>4. Zhou, X. Z. et al. (2000) <i>Mol. Cell</i> 6, 873-883.</li> <li>5. Wu, X. et al. (2000) <i>EMBO J.</i> 19, 3727-3738.</li> <li>6. Winkler, K. E. et al. (2000) <i>Science</i> 287, 1644-1647.</li> <li>7. Crenshaw, D. G. et al. (1998) <i>EMBO J.</i> 17, 1315-1327.</li> <li>8. Shen, M. et al. (1998) <i>Genes Dev.</i> 12, 706-720.</li> <li>9. Yaffe, M. B. et al. (1997) <i>Science</i> 278, 1957-1960.</li> </ol>	

<b>Species Reactivity</b>	Species reactivity is determined by testing in at least one approved application (e.g., western blot).
<b>Western Blot Buffer</b>	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.
<b>Applications Key</b>	<b>WB:</b> Western Blotting
<b>Cross-Reactivity Key</b>	<b>H:</b> human <b>M:</b> mouse <b>R:</b> rat <b>Hm:</b> hamster <b>Mk:</b> monkey <b>Vir:</b> virus <b>Mi:</b> mink <b>C:</b> chicken <b>Dm:</b> D. melanogaster <b>X:</b> Xenopus <b>Z:</b> zebrafish <b>B:</b> bovine <b>Dg:</b> dog <b>Pg:</b> pig <b>Sc:</b> S. cerevisiae <b>Ce:</b> C. elegans <b>Hr:</b> horse <b>GP:</b> Guinea Pig <b>Rab:</b> rabbit <b>All:</b> all species expected
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