

**#2612** Store at -20C

# PRK2 Antibody


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**Web:** info@cellsignal.com  
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3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

<b>Applications:</b> WB, IP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 140	<b>Source:</b> Rabbit	<b>UniProt ID:</b> #Q16513	<b>Entrez-Gene Id:</b> 5586
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<b>Product Usage Information</b>	<b>Application</b> Western Blotting Immunoprecipitation	<b>Dilution</b> 1:1000 1:50
<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>	PRK2 Antibody detects endogenous levels of total PRK2 protein. The antibody does not cross-react with PRK1.	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the amino-terminal sequence of human PRK2. Antibodies are purified by protein A and peptide affinity chromatography.	
<b>Background</b>	The protein kinase C-related kinases (PRKs) are a subfamily of Ser/Thr-specific kinases with a catalytic domain highly homologous to the PKC family (1-3). They are effectors of Rho family GTPases (4-6) and are activated by fatty acids and phospholipids <i>in vitro</i> (7,8). Activation <i>in vitro</i> and <i>in vivo</i> involves the activation loop phosphorylation of PRK1 (Thr774)/PRK2 (Thr816) by PDK1 (9,10).	
<b>Background References</b>	1. Mukai, H. et al. (1994) <i>Biochem. Biophys. Res. Commun.</i> 199, 897-904. 2. Morrice, N.A. et al. (1994) <i>J. Biol. Chem.</i> 269, 20040-20046. 3. Palmer, R.H. et al. (1994) <i>FEBS Lett.</i> 356, 5-8. 4. Watanabe, G. et al. (1996) <i>Science</i> 271, 645-648. 5. Amano, M. et al. (1996) <i>Science</i> 271, 648-650. 6. Vincent, S. and Settleman, J. (1997) <i>Mol. Cell. Biol.</i> 17, 2247-2256. 7. Morrice, N.A. et al. (1994) <i>FEBS Lett.</i> 351, 171-175. 8. Palmer, R.H. et al. (1995) <i>J. Biol. Chem.</i> 270, 22412-22416. 9. Flynn, P. et al. (2000) <i>J. Biol. Chem.</i> 275, 11064-70. 10. Dong, L.Q. et al. (2000) <i>Proc. Natl. Acad. Sci. USA</i> 97, 5089-94.	

<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>IP:</b> Immunoprecipitation
<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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