



**Orders:** 877-616-CELL (2355)  
orders@cellsignal.com

**Support:** 877-678-TECH (8324)

**Web:** info@cellsignal.com  
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Store at -20C  
#2611

## Phospho-PRK1 (Thr774)/PRK2 (Thr816) Antibody

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H M R	Endogenous	120 Phospho-PRK1. 140 Phospho-PRK2.	Rabbit	#Q16512, #Q16513	5585, 5586

<b>Product Usage Information</b>	<b>Application</b>	<b>Dilution</b>
	Western Blotting	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>	Phospho-PRK1 (Thr774)/ PRK2 (Thr816) Antibody detects endogenous levels of PRK1 and PRK2 only when phosphorylated at Thr774 or Thr816, respectively. This antibody also detects PKC zeta and lambda when phosphorylated at Thr 410 and 403, respectively.	
<b>Source / Purification</b>	Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Thr774 of human PRK1. 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>	<ol style="list-style-type: none"> <li>Mukai, H. et al. (1994) <i>Biochem. Biophys. Res. Commun.</i> 199, 897-904.</li> <li>Morrice, N.A. et al. (1994) <i>J. Biol. Chem.</i> 269, 20040-20046.</li> <li>Palmer, R.H. et al. (1994) <i>FEBS Lett.</i> 356, 5-8.</li> <li>Watanabe, G. et al. (1996) <i>Science</i> 271, 645-648.</li> <li>Amano, M. et al. (1996) <i>Science</i> 271, 648-650.</li> <li>Vincent, S. and Settleman, J. (1997) <i>Mol. Cell. Biol.</i> 17, 2247-2256.</li> <li>Morrice, N.A. et al. (1994) <i>FEBS Lett.</i> 351, 171-175.</li> <li>Palmer, R.H. et al. (1995) <i>J. Biol. Chem.</i> 270, 22412-22416.</li> <li>Flynn, P. et al. (2000) <i>J. Biol. Chem.</i> 275, 11064-70.</li> <li>Dong, L.Q. et al. (2000) <i>Proc. Natl. Acad. Sci. USA</i> 97, 5089-94.</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>W:</b> Western Blotting	
<b>Cross-Reactivity Key</b>	<b>H:</b> Human <b>M:</b> Mouse <b>R:</b> Rat	
<b>Trademarks and Patents</b>	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. All other trademarks are the property of their respective owners. Visit <a href="http://cellsignal.com/trademarks">cellsignal.com/trademarks</a> for more information.	
<b>Limited Uses</b>	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.  Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any	

purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.