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



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Applications: Reactivity: Sensitivity: MW (kDa): Source: **UniProt ID:** Entrez-Gene Id: WB HMREndogenous 120 Phospho-Rabbit #Q16512, #Q16513 5585, 5586 PRK1. 140 Phospho-PRK2.

Product Usage
InformationApplicationDilutionWestern Blotting1:1000

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 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.

Source / Purification 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.

Background 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 *in vitro* (7,8). Activation *in vitro* and *in vivo* involves the

activation loop phosphorylation of PRK1 (Thr774)/PRK2 (Thr816) by PDK1 (9,10).

Background References 1. Mukai, H. et al. (1994) Biochem. Biophys. Res. Commun. 199, 897-904.

2. Morrice, N.A. et al. (1994) J. Biol. Chem. 269, 20040-20046.

3. Palmer, R.H. et al. (1994) FEBS Lett. 356, 5-8.

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5. Amano, M. et al. (1996) Science 271, 648-650.

6. Vincent, S. and Settleman, J. (1997) Mol. Cell. Biol. 17, 2247-2256.

7. Morrice, N.A. et al. (1994) FEBS Lett. 351, 171-175.

8. Palmer, R.H. et al. (1995) J. Biol. Chem. 270, 22412-22416.

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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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