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PRK2 Antibody

Store at -20C
#2612

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

Applications: W, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit	UniProt ID: #Q16513	Entrez-Gene Id: 5586
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Product Usage Information

Application

Western Blotting
Immunoprecipitation

Dilution

1:1000
1:50

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

PRK2 Antibody detects endogenous levels of total PRK2 protein. The antibody does not cross-react with PRK1.

Source / Purification

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.

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

- Mukai, H. et al. (1994) *Biochem. Biophys. Res. Commun.* 199, 897-904.
- Morrice, N.A. et al. (1994) *J. Biol. Chem.* 269, 20040-20046.
- Palmer, R.H. et al. (1994) *FEBS Lett.* 356, 5-8.
- Watanabe, G. et al. (1996) *Science* 271, 645-648.
- Amano, M. et al. (1996) *Science* 271, 648-650.
- Vincent, S. and Settleman, J. (1997) *Mol. Cell. Biol.* 17, 2247-2256.
- Morrice, N.A. et al. (1994) *FEBS Lett.* 351, 171-175.
- Palmer, R.H. et al. (1995) *J. Biol. Chem.* 270, 22412-22416.
- Flynn, P. et al. (2000) *J. Biol. Chem.* 275, 11064-70.
- Dong, L.Q. et al. (2000) *Proc. Natl. Acad. Sci. USA* 97, 5089-94.

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

W: Western Blotting **IP:** Immunoprecipitation

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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