

#8697 Store at -20°C

PRK2 (D10A10) Rabbit mAb


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TECHNOLOGY®

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

Applications: WB, IP, eCLIP	Reactivity: H Mk B Pg	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit IgG	UniProt ID: #Q16513	Entrez-Gene Id: 5586
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Product Usage Information

Application

Western Blotting
Immunoprecipitation
eCLIP

Dilution

1:1000
1:50
1:200

For more information about eCLIP and the RBP-eCLIP kit, please visit Eclipse Bioinnovations.

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

Specificity / Sensitivity

PRK2 (D10A10) Rabbit mAb recognizes endogenous levels of total PRK2 protein. This antibody does not cross-react with PRK1.

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu633 of human PRK2 protein.

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.
4. Watanabe, G. et al. (1996) *Science* 271, 645-648.
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.
9. Flynn, P. et al. (2000) *J. Biol. Chem.* 275, 11064-70.
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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 **IP:** Immunoprecipitation **eCLIP:** eCLIP

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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