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PEBP1

Reactivity: Human Mouse Rat

Tested applications:WB IHC IF IP RIP

Recommended Dilution:WB 1:500 - 1:2000 IHC 1:50 - 1:200 IF 1:50 - 1:200 IP 1:20 - 1:50 RIP 1:20 - 1:50

Calculated MW:21kDa

Observed MW: Refer to Figures

Immunogen:

Recombinant protein of human PEBP1

Storage Buffer:

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

Concentration:

j

Synonym:

PEBP1;HCNP;PBP;PEBP;RKIP

Catalog #:A0578

Antibody Type:

Polyclonal Antibody

Species: Rabbit

Gene ID:5037

Isotype: IgG

Swiss Prot:P30086

Purity: Affinity purification

For research use only.

Background:

Raf kinase inhibitor protein (RKIP) is a member of the phosphatidylethanolamine-binding protein (PEBP) family that associates with Raf-1 and the MEK and MAP kinases (1). RKIP has been shown to complex with Raf-1, MEK, and ERK (2). Although MEK and ERK can simultaneously bind RKIP, the association between Raf-1 and RKIP and that of RKIP and MEK are mutually exclusive. Thus, RKIP competitively disrupts the Raf-1-MEK complex and effectively terminates signal transmission from Raf-1 to MAP kinases (2). The inhibitory effect of RKIP on MAP kinase signaling is eliminated by PKC phosphorylation of RKIP at Ser153 (3). PKC phosphorylation on Ser153 also promotes the association of RKIP with GRK2, which prevents GRK2-dependent internalization of GPCR (4). RKIP also interacts with modules of the NF-B pathway, including NF-B-inducing kinase (NIK), TAK1, IKK and IKK (5). These interactions antagonize cytokine-induced activation of the NF-B pathway (5). Restoration of RKIP expression is associated with the inhibition of prostate cancer metastasis, implying that RKIP may be a potential clinical target as a suppressor of tumor metastasis through inhibition of vascular invasion (6).

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