

Product datasheet for **TA326842**

PBP (PEBP1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ICC/IF, IP, WB
Recommended Dilution:	WB 1:500 - 1:2000;IF 1:50 - 1:200;IP 1:20 - 1:50
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Recombinant protein of human PEBP1
Formulation:	Store at -20C or -80C. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3
Concentration:	lot specific
Purification:	Affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	21 kDa
Gene Name:	phosphatidylethanolamine binding protein 1
Database Link:	NP_002558 Entrez Gene 23980 Mouse Entrez Gene 29542 Rat Entrez Gene 5037 Human P30086



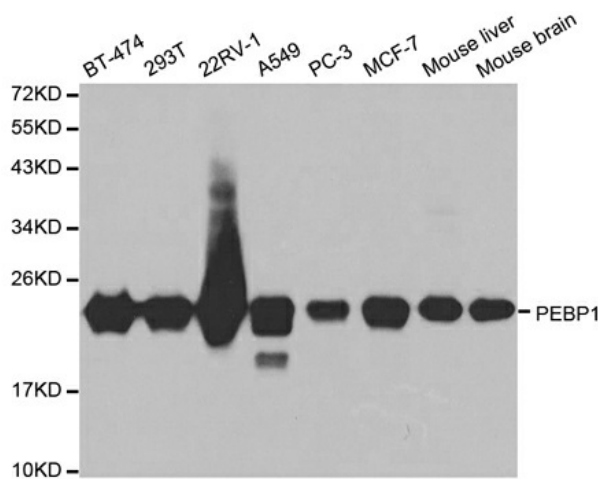
[View online »](#)

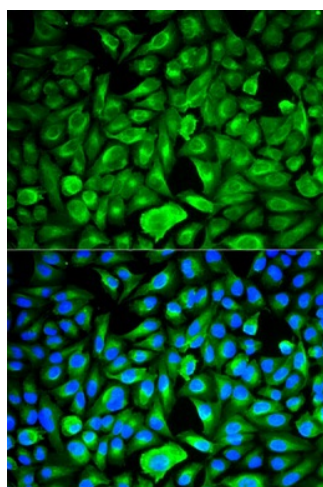
Background:

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. RKIP has been shown to complex with Raf-1, MEK, and ERK. 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. The inhibitory effect of RKIP on MAP kinase signaling is eliminated by PKC phosphorylation of RKIP at Ser153. PKC phosphorylation on Ser153 also promotes the association of RKIP with GRK2, which prevents GRK2-dependent internalization of GPCR. RKIP also interacts with modules of the NF- κ B pathway, including NF- κ B-inducing kinase (NIK), TAK1, IKK α and IKK β . These interactions antagonize cytokine-induced activation of the NF- κ B pathway. 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.

Synonyms:

HCNP; HCNppp; HEL-210; HEL-S-34; HEL-S-96; PBP; PEBP; PEBP-1; RKIP

Product images:



Immunofluorescence analysis of HeLa cell using PEBP1 antibody. Blue: DAPI for nuclear staining.