

Anti-PBP Antibody

Catalog # ABO11023

Product Information

Application	WB, IHC-P
Primary Accession	P70296
Host	Rabbit
Reactivity	Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized
Description	Rabbit IgG polyclonal antibody for Phosphatidylethanolamine-binding protein 1 (PEBP1) detection. Tested with WB, IHC-P in Mouse; Rat.
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Additional Information

Gene ID	23980
Other Names	Phosphatidylethanolamine-binding protein 1, PEBP-1, HCNPpp, Hippocampal cholinergic neurostimulating peptide, HCNP, Pebp1, Pbp, Pebp
Calculated MW	20830
Application Details	Immunohistochemistry(Paraffin-embedded Section), 0.5-1 μ g/ml, Rat, Mouse, By Heat Western blot, 0.1-0.5 μ g/ml, Rat, Mouse
Subcellular Localization	Cytoplasm.
Tissue Specificity	HCNP is expressed in brain. Increased expression in aged senescence-accelerated mice.
Source	Eukaryota
Protein Name	Phosphatidylethanolamine-binding protein 1 (PEBP-1)
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na ₂ HPO ₄ , 0.05mg Thimerosal, 0.05mg Na ₃ .
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of mouse PBP(15-29aa QEVDEPPQHALRVDY), identical to the related rat sequence.
Purification	Immunogen affinity purified.
Cross Reactivity	No cross reactivity with other proteins

Storage At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

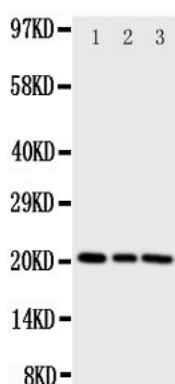
Protein Information

Name	Pebp1
Synonyms	Pbp, Pebp
Function	Binds ATP, opioids and phosphatidylethanolamine. Has lower affinity for phosphatidylinositol and phosphatidylcholine. Serine protease inhibitor which inhibits thrombin, neuropsin and chymotrypsin but not trypsin, tissue type plasminogen activator and elastase. Inhibits the kinase activity of RAF1 by inhibiting its activation and by dissociating the RAF1/MEK complex and acting as a competitive inhibitor of MEK phosphorylation (By similarity).
Cellular Location	Cytoplasm.
Tissue Location	HCNP is expressed in brain. Increased expression in aged senescence-accelerated mice

Background

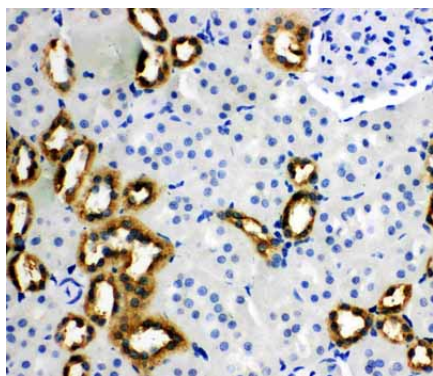
PEBP1 (Phosphatidylethanolamine-binding protein 1), also called PBP, RKIP, inhibits the phosphorylation and activation of MEK by RAF1. PEBP1 is identical to the phosphatidylethanolamine-binding protein (PBP) with a relative molecular mass of 23 kD. The PEBP1 gene is mapped on 12q24.23. PEBP1 coimmunoprecipitates with RAF1 and MEK from cell lysates and colocalizes with RAF1 when examined by confocal microscopy. PEBP1 overexpression interferes with the activation of MEK and ERK, induction of AP1-dependent reporter genes, and transformation elicited by an oncogenically activated RAF1 kinase. PEBP1 expression was rapidly upregulated during induction of chemotherapy-triggered apoptosis in human prostate and breast cancer cell lines, and maximal RKIP expression correlated perfectly with the onset of apoptosis by Chatterjee et al (2004). RKIP depletion decreased the mitotic index, the number of metaphase cells, traversal times from nuclear envelope breakdown to anaphase, and an override of mitotic checkpoints induced by spindle poisons.

Images



Anti-PBP antibody, ABO11023, Western blotting
All lanes:
Anti PBP (ABO11023) at 0.5ug/ml
Lane 1: Rat Brain Tissue Lysate at 50ug
Lane 2: Rat Lung Tissue Lysate at 50ug
Lane 3: Rat Liver Tissue Lysate at 50ug
Predicted bind size: 21KD
Observed bind size: 21KD

Anti-PBP antibody, ABO11023, IHC(P)
IHC(P): Rat Kidney Tissue



Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.