

Rabbit PEBP1 Polyclonal Antibody | anti-PEBP1 antibody

PEBP1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325898	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

PEBP1; Polyclonal Antibody; PEBP1 Antibody; Epididymis luminal protein 210; Epididymis secretory protein Li 34; Epididymis secretory protein Li 96; HCNP; HCNPpp; HEL 210; HEL S 34; HEL S 96; Hippocampal cholinergic neurostimulating peptide; Neuropolypeptide h3; PBP; PEBP; PEBP 1; PEBP-1; Pebp1; PEBP1_HUMAN; Phosphatidylethanolamine binding protein; Phosphatidylethanolamine binding protein 1; Prostatic binding protein; Prostatic-binding protein; R kip; Raf kinase inhibitor protein; Raf kinase inhibitory protein; RKIP; anti-PEBP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	PEBP1 antibody detects endogenous levels of total PEBP1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	187
Applicable Applications for anti-PEBP1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PEBP1
Subcellular Location	Cytoplasm.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (90%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (90%), Dog (90%), Chicken (100%), Xenopus (100%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)

Western blot analysis of testis using PEBP1 antibody. The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemisry)

AAA325898 at 1/100 staining Rat lung tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of extracts from Mouse brain lysate, using PEBP1 antibody.



IF (Immunofluorescence)

AAA325898 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-PEBP1 antibody

Description: 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-kappaB pathway, including NF-kappaB-inducing kinase (NIK), TAK1, IKKalpha and IKKbeta (5). These interactions antagonize cytokine-induced activation of the NF-kappaB 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).

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 (By similarity). 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.

Subunit Structure: Has a tendency to form dimers by disulfide cross-linking (By similarity). Interacts with RAF1 and this interaction is enhanced if RAF1 is phosphorylated on residues 'Ser-338', 'Ser-339', 'Tyr-340' and 'Tyr-341'. Interacts with ALOX15; in response to IL13/interleukin-13, prevents the interaction of PEBP1 with RAF1 to activate the ERK signaling cascade.

Similarity: Belongs to the phosphatidylethanolamine-binding protein family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4505621
NCBI GeneID	5037
NCBI Accession #	NP_002558.1
NCBI GenBank Nucleotide #	NM_002567.3
UniProt Accession #	P30086; B2R4S1
Molecular Weight	Observed: 21 kDa Predicted: 22 kDa
NCBI Official Full Name	phosphatidylethanolamine-binding protein 1

NCBI Official Synonym Full Names	phosphatidylethanolamine binding protein 1
NCBI Official Symbol	PEBP1
NCBI Official Synonym Symbols	PBP; HCNP; PEBP; RKIP; HCNPPp; PEBP-1; HEL-210; HEL-S-34; HEL-S-96
NCBI Protein Information	phosphatidylethanolamine-binding protein 1
UniProt Protein Name	Phosphatidylethanolamine-binding protein 1
UniProt Gene Name	PEBP1
UniProt Synonym Gene Names	PBP; PEBP; PEBP-1; RKIP; HCNP

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/pebp1-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/325898>