

# Human RKIP/PEBP1 antibody

Catalog Number: ATGA0456

## PRODUCT INFORMATION

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**Catalog number**

ATGA0456

**Clone No.**

AT4B11

**Product type**

Monoclonal Antibody

**UnitProt No.**

P30086

**NCBI Accession No.**

NP\_002558

**Alternative Names**

Phosphatidylethanolamine binding protein 1, PBP, Prostatic binding protein, RKIP, HCNP, HCNPpp, PEBP, Raf kinase inhibitory protein, Hippocampal cholinergic neurostimulating peptide

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human PEBP1 (1-187aa) purified from E. coli

**Isotype**

IgG2b kappa

**Purification Note**

By protein-A affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

Phosphatidylethanolamine binding protein 1 (PEBP1), also known as Raf kinase inhibitor protein (RKIP), is a member of the phosphatidylethanolamine-binding protein family and a serine protease inhibitor which inhibits thrombin, neuropsin. PEBP1 plays a pivotal modulatory role in several protein kinase signaling cascades. Protein kinase C (PKC) phosphorylates PEBP1, resulting in release of Raf-1 and activation of MEK and ERK. Expressed in many tissues, PEBP1 is implicated in the regulation of such physiological processes as membrane biosynthesis, spermatogenesis, neural development, and metastasis suppression.

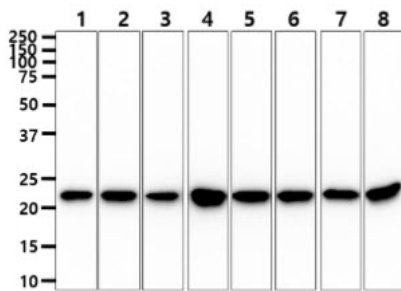
### General References

Keller ET., et al. (2004) *Biochem Pharmacol.* 68(6): 1049-53.

Park S., et al. (2005) *Oncogene.* 24(21): 3535-40.

## DATA

### Western blot analysis (WB)



The cell lysates (40ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human PEBP1 antibody (1:1000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1 : HeLa cell lysate

Lane 2 : SKOV3 cell lysate

Lane 3 : A549 cell lysate

Lane 4 : HepG2 cell lysate

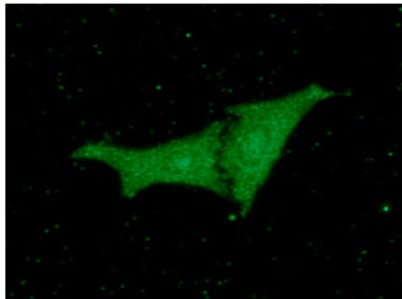
Lane 5 : MCF7 cell lysate

Lane 6 : K562 cell lysate

Lane 7 : LnCap cell lysate

Lane 8 : Ramos cell lysate

### Immunocytochemistry/Immunofluorescence (ICC/IF)



ICC/IF analysis of PEBP1 in HeLa cells line, monoclonal anti-human PEBP1 antibody (1:100) stained with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).