

# Recombinant Human Phosphatidylethanolamine Binding Protein 1

**Cat. No.** PEBP1-1400H    **Lot. No.** (See product label)

## SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>    | Recombinant human PEBP1 was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW =21 kDa (187aa).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>              | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Protein Length</b>      | 1-187 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>         | 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. |
| <b>Amino Acid Sequence</b> | MPVDLSKWVG PLSLQEVDEQ PQHPLHVTYA GAAVDELGKV LTPTQVKNRP<br>TSISWDGLDS GKLYTLVLT PDAPSRKDPK YREWHHFLVV NMKGNDISSG<br>TVLSDYVGSG PPKGTGLHRY VWLVYEQDRP LKCDPILSN RSGDHRGKFK<br>VASFRKKYEL RAPVAGTCYQ AEWDDYVPKL YEQLSGK                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Form</b>                | Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                        |                                                                                                                                                       |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>          | > 95% by SDS – PAGE.                                                                                                                                  |
| <b>Concentration</b>   | 1 mg/ml (determined by Bradford assay).                                                                                                               |
| <b>Endotoxin Level</b> | < 1.0 EU per 1 µg of protein (determined by LAL method).                                                                                              |
| <b>Storage</b>         | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                                |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | PEBP1 phosphatidylethanolamine binding protein 1 [ Homo sapiens ]                                                                                                                                                                                                                                                              |
| <b>Synonyms</b>            | PEBP1; phosphatidylethanolamine binding protein 1; PBP; HCNP; PEBP; RKIP; prostatic binding protein; Raf kinase inhibitory protein; hippocampal cholinergic neurostimulating peptide; HCNPpp; PEBP-1; Neuropolypeptide h3; Prostatic-binding protein; Raf kinase inhibitor protein; Phosphatidylethanolamine-binding protein 1 |
| <b>Gene ID</b>             | 5037                                                                                                                                                                                                                                                                                                                           |
| <b>mRNA Refseq</b>         | NM_002567                                                                                                                                                                                                                                                                                                                      |
| <b>Protein Refseq</b>      | NP_002558                                                                                                                                                                                                                                                                                                                      |
| <b>MIM</b>                 | 604591                                                                                                                                                                                                                                                                                                                         |
| <b>UniProt ID</b>          | P30086                                                                                                                                                                                                                                                                                                                         |
| <b>Chromosome Location</b> | 12q24                                                                                                                                                                                                                                                                                                                          |

 Tel: 1-631-559-9269 1-516-512-3133

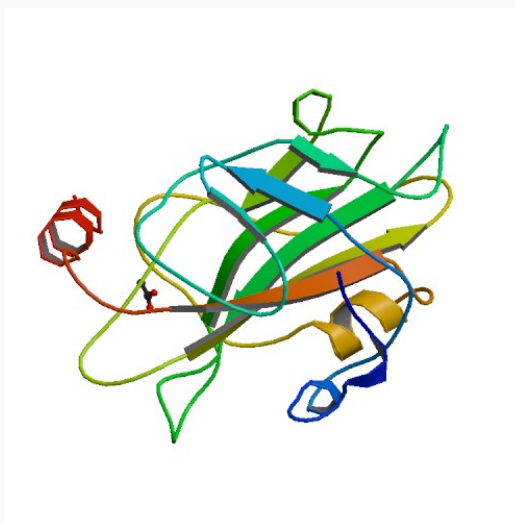
 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Function**

ATP binding; lipid binding; mitogen-activated protein kinase binding; nucleotide binding; peptidase inhibitor activity; phosphatidylethanolamine binding; receptor binding; serine-type endopeptidase inhibitor activity

**PDB rendering based on 1a44.**



 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA