

Recombinant Human Phosphatidylethanolamine Binding Protein 1

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

SPECIFICATION

Product Overview	Recombinant human PEBP1 was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW =21 kDa (187aa).
Species	Human
Source	E.coli
ProteinLength	1-187 aa
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.
Amino Acid Sequence	MPVDLSKWSG PLSLQEVDEQ PQHPLHVTYA GAAVDELGKV LTPTQVKNRP TSISWDGLDS GKLYTLVLTDPAPS RKDPK YREWHHFLVV NMKGNDISSG TVLSDYVGSPPKGTGLHRY VWLVYEQDRP LKCDEPILSN RSGDHRGKFK VASFRKKYEL RAPVAGTCYQ AEWDDYVPKL YEQLSGK
Form	Liquid. In 20mM Tris-HCl buffer (pH8.0) containing 1mM DTT, 10% glycerol.

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Purity	> 95% by SDS – PAGE.
Concentration	1 mg/ml (determined by Bradford assay).
Endotoxin Level	< 1.0 EU per 1 µg of protein (determined by LAL method).
Storage	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

Gene Name	PEBP1 phosphatidylethanolamine binding protein 1 [Homo sapiens]
Synonyms	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
Gene ID	5037
mRNA Refseq	NM_002567
Protein Refseq	NP_002558
MIM	604591
UniProt ID	P30086
Chromosome Location	12q24

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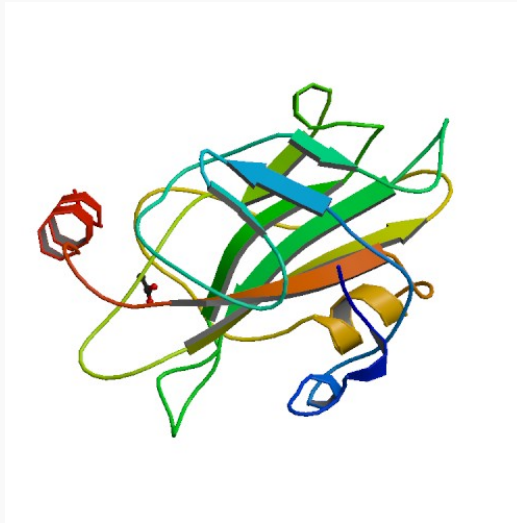
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Function

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.



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