

## Product datasheet for **TP505329**

### Prkacb (NM\_011100) Mouse Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Purified recombinant protein of Mouse protein kinase, cAMP dependent, catalytic, beta (Prkacb), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

**Species:** Mouse

**Expression Host:** HEK293T

**Expression cDNA Clone or AA Sequence:** >MR205329 representing NM\_011100  
**Red**=Cloning site **Green**=Tags(s)

MGNTAIAKKGSEVESVKEFLAKAKEDFLRKWENPPPSNAGLEDFERKKTLLGTGSGFRVMLVKHKATEQYY  
AMKILDQKQVVKLQIEHTLNEKRILQAVEFPFLVRLSEYFKDNSNLYMVMMEYVPGGEMFSLRIGRFS  
EPHARFYAAQIVLTFEYLHSLDLIYRDLKPENLLIDHQGYIQVTDGFAKRVKGRWTLCGTPEYLAPEI  
ILSKGYNKAVDWWALGVLIYEMAAGYPPFFADQPIQIYKIVSGKVRFPESHSSDLKDLLRNLLQVDLTK  
RFGNLKNGVSDIKTHKWFATTDWIAIYQRKVEAPFIPKFRGSGDTSNFDDYEEEEIRVSITEKCGKEFCE  
F

**TRTRPLEQKLISEEDLAANDILDYKDDDDKV**

**Tag:** C-MYC/DDK

**Predicted MW:** 41.2 kDa

**Concentration:** >0.05 µg/µL as determined by microplate BCA method

**Purity:** > 80% as determined by SDS-PAGE and Coomassie blue staining

**Buffer:** 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

**Note:** For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

**Storage:** Store at -80°C after receiving vials.

**Stability:** Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.

**RefSeq:** [NP\\_035230](#)

**Locus ID:** 18749

**UniProt ID:** [P68181](#)



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RefSeq Size: 4341

Cytogenetics: 3 H2

RefSeq ORF: 1053

Synonyms: CbPKA; Pkacb

**Summary:** Mediates cAMP-dependent signaling triggered by receptor binding to GPCRs. PKA activation regulates diverse cellular processes such as cell proliferation, the cell cycle, differentiation and regulation of microtubule dynamics, chromatin condensation and decondensation, nuclear envelope disassembly and reassembly, as well as regulation of intracellular transport mechanisms and ion flux (PubMed:9368018). Regulates the abundance of compartmentalized pools of its regulatory subunits through phosphorylation of PJA2 which binds and ubiquitinates these subunits, leading to their subsequent proteolysis. Phosphorylates GPKOW which regulates its ability to bind RNA (By similarity).[UniProtKB/Swiss-Prot Function]