# Recombinant Mouse Prkacb Protein, Myc/DDK-tagged

**Cat. No.** Prkacb-5112M **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Purified recombinant protein of mouse full-length protein kinase, cAMP dependent, catalytic, beta (Prkacb), with C-terminal MYC/DDK tag, expressed in HEK293T cells. |
| **Species** | Mouse |
| **Source** | HEK293 |
| **Description** | 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. 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. |
| **Molecular Mass** | 41.2 kDa |
| **Purity** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Stability** | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| **Storage** | Store at -80 centigrade after receiving vials. |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| **Concentration** | >50 μg/mL as determined by microplate BCA method |
| **Storage Buffer** | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol. |

## GENE INFORMATION

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| **Gene Name** | Prkacb protein kinase, cAMP dependent, catalytic, beta [ Mus musculus (house mouse) ] |
| **Official Symbol** | Prkacb |
| **Synonyms** | PRKACB; protein kinase, cAMP dependent, catalytic, beta; cAMP-dependent protein kinase catalytic subunit beta; PKA C-beta; cAMP-dependent protein kinase C beta; Pkacb |
| **Gene ID** | 18749 |
| **mRNA Refseq** | NM_011100 |
| **Protein Refseq** | NP_035230 |
| **UniProt ID** | P68181 |

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