

Recombinant Mouse Prkacb Protein, Myc/DDK-tagged

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

SPECIFICATION

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.

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

Gene Name	Prkacb protein kinase, cAMP dependent, catalytic, beta [Mus musculus (house mouse)]
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Official Symbol	Prkacb
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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
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Gene ID	18749
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mRNA Refseq	NM_011100
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Protein Refseq	NP_035230
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UniProt ID	P68181
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