Recombinant Human PRKAR2B Protein, MYC/DDK-tagged, C13 and N15-labeled

Cat. No. PRKAR2B-398H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PRKAR2B MS Standard C13 and N15-labeled recombinant protein (NP_002727) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	cAMP is a signaling molecule important for a variety of cellular functions. cAMP exerts its effects by activating the cAMP-dependent protein kinase, which transduces the signal through phosphorylation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two regulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. Four different regulatory subunits and three catalytic subunits have been identified in humans. The protein encoded by this gene is one of the regulatory subunits. This subunit can be phosphorylated by the activated catalytic subunit. This subunit has been shown to interact with and suppress the transcriptional activity of the cAMP responsive element binding protein 1 (CREB1) in activated T cells. Knockout studies in mice suggest that this subunit may play an important role in regulating energy balance and adiposity. The studies also suggest that this subunit may mediate the gene induction and cataleptic behavior induced by haloperidol. [provided by RefSeq, Jul 2008]

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Molecular Mass	46.3 kDa
AA Sequence	MSIEIPAGLTELLQGFTVEVLRHQPADLLEFALQHFTRLQQENERKGTARFCHEGRT WGDLGAAAGGGTPSKGVNFAEEPMQSDSEDGEEEEAAPADAGAFNAPVINRFTRR ASVCAEAYNPDEEEDDAESRIIHPKTDDQRNRLQEACKDILLFKNLDPEQMSQVLDA MFEKLVKDGEHVIDQGDDGDNFYVIDRGTFDIYVKCDGVGRCVGNYDNRGSFGELA LMYNTPRAATITATSPGALWGLDRVTFRRIIVKNNAKKRKMYESFIESLPFLKSLEFSE RLKVVDVIGTKVYNDGEQIIAQGDSADSFFIVESGEVKITMKRKGKSEVEENGAVEIA RCSRGQYFGELALVTNKPRAASAHAIGTVKCLAMDVQAFERLLGPCMEIMKRNIATY EEQLVALFGTNMDIVEPTATRTRPLEQKLISEEDLAANDILDYKDDDDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	PRKAR2B protein kinase, cAMP-dependent, regulatory, type II, beta [Homo sapiens (human)]
Official Symbol	PRKAR2B
Synonyms	PRKAR2B; protein kinase, cAMP-dependent, regulatory, type II, beta; PRKAR2; cAMP-dependent protein kinase type II-beta regulatory subunit; H_RG363E19.2;

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	WUGSC:H_RG363E19.2; cAMP-dependent protein kinase type II-beta regulatory chain; RII-BETA;
Gene ID	5577
mRNA Refseq	NM_002736
Protein Refseq	NP_002727
MIM	176912
UniProt ID	P31323

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