

Recombinant Human PRKACB/PKC beta GST Active

Catalog No.	CRP110A	Quantity:	5 µg
	CRP110B		10 µg

Description: Recombinant full-length human PKA cb containing N-terminal GST tag was expressed by baculovirus in Sf9 insect cells.

Most of the effects of cAMP are mediated through the phosphorylation of target proteins on serine or threonine residues by the cAMP-dependent protein kinase (AMPK). The inactive holoenzyme of AMPK is a tetramer composed of two regulatory and two catalytic subunits. The mammalian catalytic subunit has been shown to consist of three PKA gene products: C-alpha, Cbeta, and C-gamma. Two PKA isoforms exist, designated types I and II, which differ in their dimeric regulatory subunits, designated RI and RII, respectively. Furthermore, there are at least four different regulatory subunits: RI-alpha, RI-beta, RII-alpha, and RII-beta. The cAMP causes the dissociation of the inactive holoenzyme into a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. The catalytic subunit C-beta of PKA (PKAcβ) is a member of the Ser/Thr protein kinase family and is a catalytic subunit C-beta of AMPK. PKAcβ was assigned to human chromosome 1 by Southern blot analysis of somatic cell hybrids and located it to 1p36.1 by in situ hybridization.

Concentration: 0.1 mg/ml

Protein Accession No: NM_002731

Source: Sf9 insect cells

Formulation: Recombinant protein in storage buffer (50 mM Tris-HCl + 150 mM NaCl + 0.25 mM DTT + 0.1 mM EGTA + 0.1 mM EDTA + 0.1 mM PMSF + 25% glycerol; pH 7.5).

Purity: 1.25 µl of PKAcβ protein was subjected to SDS-PAGE and Coomassie blue staining. The scan of the gel showed >90% purity of the PKAcβ protein, and the band was at ~65 kDa (Fig. 2).

Specific Activity: 342 nmol/min/mg: 342 µmol phosphate incorporated into CREBtide substrate per minute per mg protein at 30°C for 15 minutes using a final concentration of 50 µM ATP (0.83 µCi/assay). See QA/QC section for details.

Storage & Stability: Store product frozen at or below -80°F. Stable for 1 year at -80°F as undiluted stock. Aliquot to avoid repeated thawing and freezing.

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