

## Recombinant Human PRKACB/PKC beta GST Active

<b>Catalog No.</b>	CRP110A CRP110B	<b>Quantity:</b>	5 µg 10 µg
<b>Description:</b>	<p>Recombinant full-length human PKA cb containing N-terminal GST tag was expressed by baculovirus in Sf9 insect cells.</p> <p>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.</p>		
<b>Concentration:</b>	0.1 mg/ml		
<b>Protein Accession No:</b>	NM_002731		
<b>Source:</b>	Sf9 insect cells		
<b>Formulation:</b>	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).		
<b>Purity:</b>	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).		
<b>Specific Activity:</b>	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.		
<b>Storage &amp; Stability:</b>	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.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



**Cell Sciences®**  
480 Neponset Street  
Bldg 12A  
Canton, MA 02021

Toll Free: 888-769-1246  
Phone: 781-828-0610  
Fax: 781-828-0542

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Website: [www.cellsciences.com](http://www.cellsciences.com)