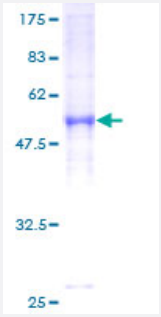
Full-Length

PRKACB (Human) Recombinant Protein (P01)

Catalog # H00005567-P01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PRKACB full-length ORF (AAH16285, 1 a.a. - 257 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MGNAATAKKGSEVESVKEFLAKAKEDFLKKWENPTQNNAGLEDFERKKTLGTGSFGRVMLVKH KATEQYYAMKILDKQKVVKLKQIEHTLNEKRILQAVNFPFLVRLEYAFKDNSNLYMVMEYVPGGEM FSHLRRIGRFSEPHARFYAAQIVLTFEYLHSLDLIYRDLKPENLLIDHQGYIQVTDFGFAKRVKGRTW TLCGTPEYLAPEIILSKGYNKAVDWWALGVLIYEMAAGYPPFFADQPIQIYEKIVSGKNF
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	54.01
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PRKACB

Entrez GeneID	5567
GeneBank Accession#	BC016285
Protein Accession#	AAH16285
Gene Name	PRKACB
Gene Alias	DKFZp781I2452, MGC41879, MGC9320, PKACB
Gene Description	protein kinase, cAMP-dependent, catalytic, beta
Omim ID	176892
Gene Ontology	Hyperlink
Gene Summary	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 phosphoryl ation of different target proteins. The inactive kinase holoenzyme is a tetramer composed of two r egulatory and two catalytic subunits. cAMP causes the dissociation of the inactive holoenzyme int o a dimer of regulatory subunits bound to four cAMP and two free monomeric catalytic subunits. F our different regulatory subunits and three catalytic subunits have been identified in humans. The p rotein encoded by this gene is a member of the Ser/Thr protein kinase family and is a catalytic su bunit of cAMP-dependent protein kinase. Three alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq
Other Designations	OTTHUMP00000011663|OTTHUMP00000011664|OTTHUMP00000011666|PKA C-beta|cAMP-dependent protein kinase catalytic beta subunit isoform 4ab|cAMP-dependent protein kinase cat alytic subunit beta|protein kinase A catalytic subunit beta

Pathway

- Apoptosis
- Calcium signaling pathway
- Chemokine signaling pathway
- Gap junction
- GnRH signaling pathway
- Hedgehog signaling pathway
- Insulin signaling pathway
- Long-term potentiation
- MAPK signaling pathway
- Melanogenesis
- Olfactory transduction
- Prion diseases
- Taste transduction
- Vascular smooth muscle contraction
- Vibrio cholerae infection
- Wnt signaling pathway

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Diabetes Complications
- Metabolic Syndrome X
- Neoplasms
- Osteoporosis