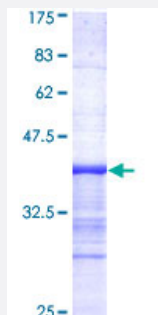


PRKACB (Human) Recombinant Protein (Q01)

Catalog # H00005567-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PRKACB partial ORF (AAH16285, 1 a.a. - 90 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MGNAATAKKGSEVESVKEFLAKAKEDFLKKWENPTQNNAGLEDFERKKTLGTGSFGRVMLVKHKATEQYYAMKILDKQKVVKLKQIEHTL
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	35.53
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 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 a member of the Ser/Thr protein kinase family and is a catalytic subunit 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 catalytic 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](#)