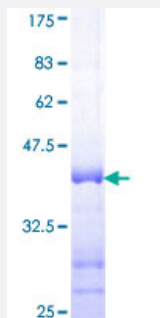


# PRKACA (Human) Recombinant Protein (Q01)

Catalog # H00005566-Q01

Size 25 ug, 10 ug

## Applications



## Specification

<b>Product Description</b>	Human PRKACA partial ORF ( AAH39846, 1 a.a. - 120 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Sequence</b>	MGNAAA A KKGSEQESVKEFLAKAKEDFLKKWESPAQNTAHL DQFERIKTLGTGSFGRV MLVKH KETGNHYAMKILDKQKVVKLKQIEHTLNEKRILQAVNFPFLVKLEFSFKDNSNLYMV
<b>Host</b>	Wheat Germ (in vitro)
<b>Theoretical MW (kDa)</b>	38.94
<b>Interspecies Antigen Sequence</b>	Mouse (96); Rat (95)
<b>Preparation Method</b>	<a href="#">in vitro wheat germ expression system</a>
<b>Purification</b>	Glutathione Sepharose 4 Fast Flow
<b>Quality Control Testing</b>	12.5% SDS-PAGE Stained with Coomassie Blue.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
<b>Storage Instruction</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	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 — PRKACA

Entrez GeneID [5566](#)

GeneBank Accession# [BC039846](#)

Protein Accession# [AAH39846](#)

Gene Name PRKACA

Gene Alias MGC102831, MGC48865, PKACA

Gene Description protein kinase, cAMP-dependent, catalytic, alpha

Omim ID [601639](#)

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. Alternatively spliced transcript variants encoding distinct isoforms have been observed. [provided by RefSeq]

**Other Designations** PKA C-alpha|cAMP-dependent protein kinase catalytic subunit alpha|cAMP-dependent protein kinase catalytic subunit alpha, isoform 1|protein kinase A catalytic subunit

## 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](#)