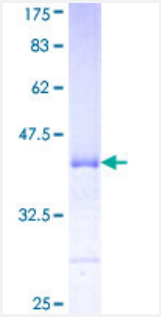
PRKCH (Human) Recombinant Protein (Q01)

Catalog # H00005583-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human PRKCH partial ORF (NP_006246, 1 a.a. - 100 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MSSGTMKFNGYLRVRIGEAVGLQPTRWSLRHSLFKKGHQLLDPYLTVSVDQVRVGQTSTKQKTN KPTYNEEFCANVTDGGHLELAVFHETPLGYDHFVAN
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
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 — PRKCH

Entrez GeneID	5583
GeneBank Accession#	NM_006255
Protein Accession#	NP_006246
Gene Name	PRKCH
Gene Alias	MGC26269, MGC5363, PKC-L, PKCL, PRKCL, nPKC-eta
Gene Description	protein kinase C, eta
Omim ID	601367 605437
Gene Ontology	Hyperlink
Gene Summary	Protein kinase C (PKC) is a family of serine- and threonine-specific protein kinases that can be activated by calcium and the second messenger diacylglycerol. PKC family members phosphorylate a wide variety of protein targets and are known to be involved in diverse cellular signaling pathways. PKC family members also serve as major receptors for phorbol esters, a class of tumor promoters. Each member of the PKC family has a specific expression profile and is believed to play a distinct role in cells. The protein encoded by this gene is one of the PKC family members. It is a calcium-independent and phospholipids-dependent protein kinase. It is predominantly expressed in epithelial tissues and has been shown to reside specifically in the cell nucleus. This protein kinase can regulate keratinocyte differentiation by activating the MAP kinase MAPK13 (p38delta)-activated protein kinase cascade that targets CCAAT/enhancer-binding protein alpha (CEBPA). It is also found to mediate the transcription activation of the transglutaminase 1 (TGM1) gene. [provided by RefSeq
Other Designations	protein kinase C eta type

Pathway

- Tight junction
- Vascular smooth muscle contraction

Disease

- Arthritis
- Atherosclerosis
- Brain Infarction
- Brain Ischemia
- Cerebral Hemorrhage
- Depressive Disorder
- Gastritis
- Genetic Predisposition to Disease
- Helicobacter Infections
- Hypertension
- Inflammation
- Narcolepsy
- Stomach Neoplasms
- Stroke
- Tobacco Use Disorder