

## Recombinant Human PRKCH

**Cat. No.** PRKCH-28938TH    **Lot. No.** (See product label)

### SPECIFICATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b>   | Recombinant full length PKC eta protein (Human), was expressed by baculovirus in Sf9 insect cells using a N-terminal tag, MW 103kDa.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Species</b>            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>        | <p>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.</p> |
| <b>Tissue specificity</b> | Most abundant in lung, less in heart and skin.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Form</b>               | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Storage buffer</b>     | Preservative: None<br>Constituents: 25% Glycerol, 50mM Tris HCl, 150mM Sodium                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|                              |                                                                                                                                                                                                                                           |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                              | chloride, 0.25mM DTT, 0.1mM EGTA, 0.1mM EDTA, 0.1mM PMSF, pH 7.5                                                                                                                                                                          |
| <b>Storage</b>               | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                                 |
| <b>Sequence Similarities</b> | Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily.Contains 1 AGC-kinase C-terminal domain.Contains 1 C2 domain.Contains 2 phorbol-ester/DAG-type zinc fingers.Contains 1 protein kinase domain. |
| <b>Full Length</b>           | Full L.                                                                                                                                                                                                                                   |

## GENE INFORMATION

|                            |                                                                              |
|----------------------------|------------------------------------------------------------------------------|
| <b>Gene Name</b>           | PRKCH protein kinase C, eta [ Homo sapiens ]                                 |
| <b>Official Symbol</b>     | PRKCH                                                                        |
| <b>Synonyms</b>            | PRKCH; protein kinase C, eta; PRKCL; protein kinase C eta type; PKC L; PKCL; |
| <b>Gene ID</b>             | 5583                                                                         |
| <b>mRNA Refseq</b>         | NM_006255                                                                    |
| <b>Protein Refseq</b>      | NP_006246                                                                    |
| <b>MIM</b>                 | 605437                                                                       |
| <b>Uniprot ID</b>          | P24723                                                                       |
| <b>Chromosome Location</b> | 14q23.1                                                                      |

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|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b>  | Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Effects of PIP2 hydrolysis, organism-specific biosystem; Endothelins, organism-specific biosystem; G Protein Signaling Pathways, organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; |
| <b>Function</b> | ATP binding; enzyme binding; metal ion binding; nucleotide binding; protein kinase C activity;                                                                                                                                                                                                 |

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