

## Rabbit PKC epsilon Polyclonal Antibody | anti-PKC antibody

PKC epsilon Antibody

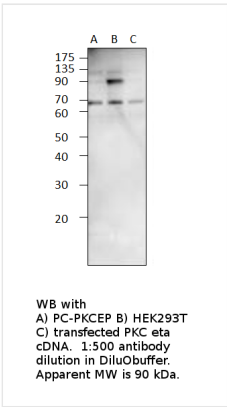
| CATALOG # | HOST   | REACTIVITY    | APPLICATIONS                             |
|-----------|--------|---------------|------------------------------------------|
| AAA75806  | Rabbit | Human, Monkey | Western Blot, Immunoprecipitation, ELISA |

### PRODUCT SYNONYMS

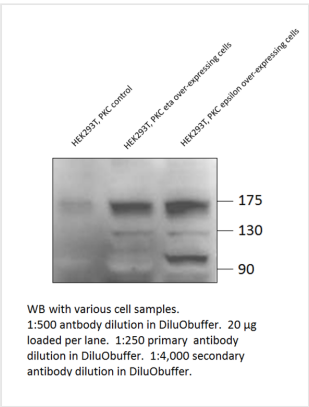
PKC epsilon; Polyclonal Antibody; PKC epsilon Antibody; KPCE\_HUMAN; MGC125656; MGC125657; nPKC epsilon; nPKC-epsilon; PKCE; Pkcea; PRKCE; Protein kinase C epsilon antibody; anti-PKC antibody

### PRODUCT SPECIFICATIONS

|                                               |                                                                                                                                                                                                                                                   |
|-----------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Rabbit                                                                                                                                                                                                                                            |
| Reactivity                                    | Human, Monkey                                                                                                                                                                                                                                     |
| Clonality                                     | Polyclonal                                                                                                                                                                                                                                        |
| Form/Format                                   | Affinity Purified                                                                                                                                                                                                                                 |
| Concentration                                 | 0.55-0.75 ug/ul in antibody stabilization buffer (varies by lot)                                                                                                                                                                                  |
| Sequence Length                               | 737                                                                                                                                                                                                                                               |
| Applicable Applications for anti-PKC antibody | WB (Western Blot), IP (Immunoprecipitation), ELISA                                                                                                                                                                                                |
| Immunogen                                     | Synthetic peptide taken within amino acid region 350-400 on human Protein Kinase C epsilon type protein.                                                                                                                                          |
| Determinant                                   | Mid-Region Epitope                                                                                                                                                                                                                                |
| Molecular Function                            | Kinase, Serine/threonine-protein kinase, Transferase                                                                                                                                                                                              |
| Structure                                     | Belongs to the protein kinase superfamily. AGC Ser/Thr protein kinase family. PKC subfamily.<br>Contains 1 AGC-kinase C-terminal<br>Contains 1 C2 domain.<br>Contains 2 phorbol-ester/DAG-type zinc fingers.<br>Contains 1 protein kinase domain. |
| Subcellular Location                          | Cytoplasm; Cell Membrane; Nucleus                                                                                                                                                                                                                 |
| Preparation and Storage                       | -20• degree C for long term storage                                                                                                                                                                                                               |



WB (Western Blot)



WB (Western Blot)

ADDITIONAL INFORMATION

|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Related Product Information for anti-PKC antibody</b></p> | <p>Affinity Purified Protein Kinase C epsilon Antibody Mid-Region Epitope</p> <p>Calcium-independent, phospholipid- and diacylglycerol (DAG)-dependent serine/threonine-protein kinase that plays essential roles in the regulation of multiple cellular processes linked to cytoskeletal proteins, such as cell adhesion, motility, migration and cell cycle, functions in neuron growth and ion channel regulation, and is involved in immune response, cancer cell invasion and regulation of apoptosis. Mediates cell adhesion to the extracellular matrix via integrin-dependent signaling, by mediating angiotensin-2-induced activation of integrin beta-1 (ITGB1) in cardiac fibroblasts. Phosphorylates MARCKS, which phosphorylates and activates PTK2/FAK, leading to the spread of cardio myocytes. Involved in the control of the directional transport of ITGB1 in mesenchymal cells by phosphorylating vimentin (VIM), an intermediate filament (IF) protein. In epithelial cells, associates with and phosphorylates keratin-8 (KRT8), which induces targeting of desmoplakin at desmosomes and regulates cell-cell contact. Phosphorylates IQGAP1, which binds to CDC42, mediating epithelial cell-cell detachment prior to migration. In HeLa cells, contributes to hepatocyte growth factor (HGF)-induced cell migration, and in human corneal epithelial cells, plays a critical role in wound healing after activation by HGF. During cytokinesis, forms a complex with YWHAP, which is crucial for daughter cell separation, and facilitates abscission by a mechanism which may implication the regulation of RHOA. In cardiac myocytes, regulates myofilament function and excitation coupling at the Z-lines, where it is indirectly associated with F-actin via interaction with COPB1. During endothelin-induced cardiomyocyte hypertrophy, mediates activation of PTK2/FAK, which is critical for cardiomyocyte survival and regulation of sarcomere length. Plays a role in the pathogenesis of dilated cardiomyopathy via persistent phosphorylation of troponin I (TNNI3). Involved in nerve growth factor (NGF)-induced neurite outgrowth and neuron morphological change independently of its kinase activity, by inhibition of RHOA pathway, activation of CDC42 and cytoskeletal rearrangement. May be involved in presynaptic facilitation by mediating phorbol ester-induced synaptic potentiation. Phosphorylates gamma-aminobutyric acid receptor subunit gamma-2 (GABRG2), which reduces the response of GABA receptors to ethanol and benzodiazepines and may mediate acute tolerance to the intoxicating effects of ethanol. Upon PMA treatment, phosphorylates the capsaicin- and heat-activated cation channel TRPV1, which is required for bradykinin-induced sensitization of the heat response in nociceptive neurons. IS able to form a complex with PDLIM5 and N-type calcium channel, and may enhance channel activities and potentiates fast synaptic transmission by phosphorylating the pore-forming alpha subunit CACNA1B (CaV2.2). In prostate cancer cells, interacts with and phosphorylates STAT3, which increases DNA-binding and transcriptional activity of STAT3 and seems to be essential for prostate cancer cell invasion. Downstream of TLR4, plays an important role in the lipopolysaccharide (LPS)-induced immune response by phosphorylating and activating TICAM2/TRAM, which in turn activates the transcription factor IRF3 and subsequent cytokines production. In differentiating erythroid progenitors, is regulated by EPO and controls the protection against the TNFSF10/TRAIL-mediated apoptosis, via BCL2. May be involved in the regulation of the insulin-induced phosphorylation and activation of AKT1.</p> |
| <p><b>Product Categories/Family for anti-PKC antibody</b></p>   | <p>Primary Antibodies; Protein Kinases; Serine/Threonine Kinases; PKC; PKC epsilon Antibody</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

NCBI AND UNIPROT INFORMATION

|                    |                |
|--------------------|----------------|
| <p>NCBI GI #</p>   | <p>4885563</p> |
| <p>NCBI GeneID</p> | <p>5581</p>    |

|                                  |                                                                                                                                                     |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI Accession #                 | <a href="#">NP_005391.1</a>                                                                                                                         |
| NCBI GenBank Nucleotide #        | <a href="#">NM_005400.2</a>                                                                                                                         |
| UniProt Accession #              | <a href="#">Q02156</a> ; <a href="#">Q32MQ3</a> ; <a href="#">Q53SL4</a> ; <a href="#">Q53SM5</a> ; <a href="#">Q9UE81</a> ; <a href="#">B0LPH7</a> |
| Molecular Weight                 | 83,674 Da                                                                                                                                           |
| NCBI Official Full Name          | protein kinase C epsilon type                                                                                                                       |
| NCBI Official Synonym Full Names | protein kinase C epsilon                                                                                                                            |
| NCBI Official Symbol             | PRKCE                                                                                                                                               |
| NCBI Official Synonym Symbols    | PKCE; nPKC-epsilon                                                                                                                                  |
| NCBI Protein Information         | protein kinase C epsilon type                                                                                                                       |
| UniProt Protein Name             | Protein kinase C epsilon type                                                                                                                       |
| UniProt Gene Name                | <b>PRKCE</b>                                                                                                                                        |
| UniProt Synonym Gene Names       | PKCE                                                                                                                                                |
| UniProt Entry Name               | KPCE_HUMAN                                                                                                                                          |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/polyclonal/pkc-epsilon-antibody-western-blot-immunoprecipitation-elisa/75806>