

## PKC epsilon Antibody

Rabbit mAb Catalog # AP91407

## **Product Information**

Application Primary Accession Reactivity Clonality Other Names	WB, IHC, IF, FC, ICC, IHF <u>Q02156</u> Rat, Human, Mouse Monoclonal nPKC epsilon; PKCE; Pkcea; PRKCE; Protein kinase C epsilon; Protein kinase C epsilon type;
lsotype	Rabbit IgG
Host	Rabbit
Calculated MW	83674

## **Additional Information**

Dilution Purification Immunogen	WB 1:500~1:2000 IHC 1:50~1:200 ICC/IF 1:50~1:200 FC 1:80 Affinity-chromatography A synthesized peptide derived from human PKC epsilon
Description	This is calcium-independent, phospholipid-dependent, serine- and threonine-specific enzyme. PKC is activated by diacylglycerol which in turn phosphorylates a range of cellular proteins. PKC also serves as the receptor for phorbol esters, a class of tumor promoters.
Storage Condition and Buffer	• •

## **Protein Information**

Name	PRKCE
Synonyms	PKCE
Function	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 cardiomyocytes. 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,

Western blot analysis of PKC epsilon expression in Jurkat cell lysate.



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