

Product Datasheet

Phospho-PKC ϵ (Ser729) Antibody

Catalog No: AY0613

Reactivity: Human:S729,Mouse:S729,Rat:S729,

Isotype: Rabbit IgG

Applications: WB,ELISA



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Information

UniProt ID: Q02156

All Names: EC 2.7.11.13, KPCE, PKC-epsilon, PKCEA, PRKCE, Protein kinase C, epsilon type, kinase PKC-epsilon, nPKC-epsilon

Form: Liquid

Storage instructions: Store at +4°C short term. Store at -20°C long term. Avoid freeze / thaw cycle.

Storage buffer: pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Purity: Affinity-chromatography

Immunogen: A synthesized peptide

Molecular Wt.: 84 kDa

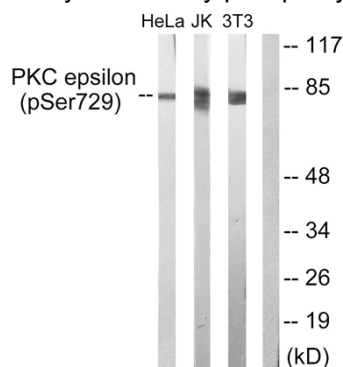
Application

WB: 1:500~1:3000

ELISA: 1:10000

Background

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.



Western blot analysis of extracts from HeLa cells (line 1), Jurkat cells (line 2) and NIH/3T3 cells (line 3) all treated with PMA (125ng/ml, 30mins), using PKC ϵ (Phospho-Ser729) antibody.

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