

## DGK zeta Rabbit monoclonal antibody

Catalog: MB66433

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids.

Thereby, acts as a central switch between the signaling pathways activated by these second messengers with different cellular targets and opposite effects in numerous biological processes.

Also plays an important role in the biosynthesis of complex lipids (Probable). Does not exhibit an acyl chain-dependent substrate specificity among diacylglycerol species.

Can also phosphorylate 1-alkyl-2-acylglycerol in vitro but less efficiently and with a preference for alkylacylglycerols containing an arachidonoyl group.

The biological processes it is involved in include T cell activation since it negatively regulates T-cell receptor signaling which is in part mediated by diacylglycerol (By similarity).

By generating phosphatidic acid, stimulates PIP5KIA activity which regulates actin polymerization.

Through the same mechanism could also positively regulate insulin-induced translocation of SLC2A4 to the cell membrane (By similarity).

### Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

### Molecular Weight:

~ 120 kDa

### Swiss-Prot:

Q13574

### Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

### Applications:

WB (1/500 - 1/1000), IP (1/10 - 1/50)

### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

### Specificity:

Recognizes endogenous levels of DGK zeta protein.

### DATA:



Western blot analysis of DGK zeta expression in Hela (A), A549 (B), HL60 (C), U2OS (D), U87MG (E), mouse brain (F), rat brain (G) whole cell lysates.

### Note:

For research use only, not for use in diagnostic procedure.

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