

DGK-ζ Polyclonal Antibody

Catalog No: YT1335

Reactivity: Human; Rat; Mouse;

Applications: IHC;IF;ELISA

Target: DGK-ζ

Fields: >>Glycerolipid metabolism;>>Glycerophospholipid metabolism;>>Metabolic

pathways;>>Phosphatidylinositol signaling system;>>Phospholipase D signaling

pathway;>>Choline metabolism in cancer

Gene Name: DGKZ

Protein Name: Diacylglycerol kinase zeta

Q13574

Q80UP3

Human Gene Id: 8525

Human Swiss Prot

No:

Mouse Swiss Prot

No:

Immunogen: The antiserum was produced against synthesized peptide derived from human

DGKZ. AA range:601-650

Specificity: DGK-ζ Polyclonal Antibody detects endogenous levels of DGK-ζ protein.

Formulation : Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: IHC 1:100 - 1:300. ELISA: 1:20000.. IF 1:50-200

Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

1/2



Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Molecularweight: 124kD

Cell Pathway: Glycerolipid metabolism;Glycerophospholipid metabolism;Phosphatidylinositol

signaling system;

Background: The protein encoded by this gene belongs to the eukaryotic diacylglycerol kinase

family. It may attenuate protein kinase C activity by regulating diacylglycerol levels in intracellular signaling cascade and signal transduction. Alternative splicing occurs at this locus and multiple transcript variants encoding distinct isoforms

have been identified. [provided by RefSeq, Nov 2010],

Function : catalytic activity:ATP + 1,2-diacylglycerol = ADP + 1,2-diacyl-sn-glycerol

3-phosphate.,caution:The sequence shown here is derived from an Ensembl

automatic analysis pipeline and should be considered as preliminary data.,function:Displays a strong preference for 1,2-diacylglycerols over

1,3-diacylglycerols, but lacks substrate specificity among molecular species of long chain diacylglycerols. Isoform 2 but not isoform 1 regulates RASGRP1 activity.,PTM:Phosphorylation of the MARCKS homology domain by PKC

reduces nuclear accumulation of DGK-zeta., similarity: Belongs to the eukaryotic

diacylglycerol kinase family., similarity: Contains 1 DAGKc

domain.,similarity:Contains 2 ANK repeats.,similarity:Contains 2 phorbolester/DAG-type zinc fingers.,subunit:Interacts with the PDZ domain of the syntrophin SNTG1 and that of SNX27. Isoform 2 forms a signaling complex with

RASGRP1 and HRAS.,tissue speci

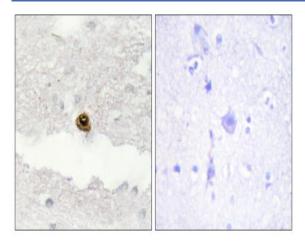
Subcellular Location :

Nucleus . Cytoplasm, cytosol . Cell membrane . Cell projection, lamellipodium .

Expression:

Highest levels in brain, and substantial levels in skeletal muscle, heart, and pancreas.; [Isoform 2]: Predominantly expressed in muscle.

Products Images



Immunohistochemistry analysis of paraffin-embedded human brain, using DGKZ Antibody. The picture on the right is blocked with the synthesized peptide.