

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
Human Gene Id :	8525
Human Swiss Prot No :	Q13574
Mouse Swiss Prot No :	Q80UP3
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

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;

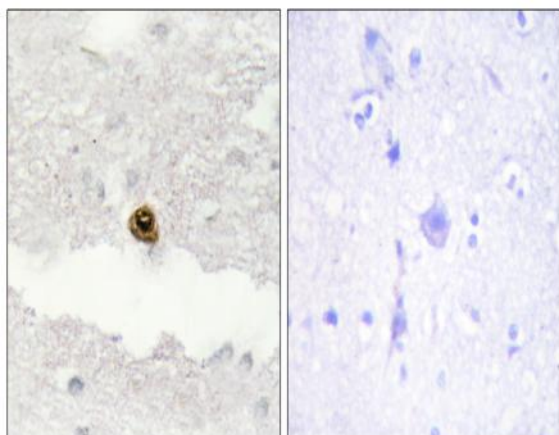
Background : The protein encoded by this gene belongs to the eukaryotic diacylglycerol kinase family. It may attenuate protein kinase C activity by regulating diacylglycerol levels in intracellular signaling cascade and signal transduction. Alternative splicing occurs at this locus and multiple transcript 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 phorbol-ester/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.