

**Product Name: DGK- $\zeta$  Rabbit Polyclonal Antibody**  
**Catalog #: APRab09950**



## Summary

<b>Production Name</b>	DGK- $\zeta$ Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	IHC,ELISA
<b>Reactivity</b>	Human,Rat,Mouse

## Performance

<b>Conjugation</b>	Unconjugated
<b>Modification</b>	Unmodified
<b>Isotype</b>	IgG
<b>Clonality</b>	Polyclonal
<b>Form</b>	Liquid
<b>Storage</b>	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
<b>Buffer</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
<b>Purification</b>	Affinity purification

## Immunogen

<b>Gene Name</b>	DGKZ
<b>Alternative Names</b>	DGKZ; DAGK6; Diacylglycerol kinase zeta; DAG kinase zeta; Diglyceride kinase zeta; DGK-zeta
<b>Gene ID</b>	8525.0
<b>SwissProt ID</b>	Q13574.The antiserum was produced against synthesized peptide derived from human DGKZ. AA range:601-650

## Application

<b>Dilution Ratio</b>	IHC 1:100-1:300 ELISA: 1:20000
<b>Molecular Weight</b>	

## Background

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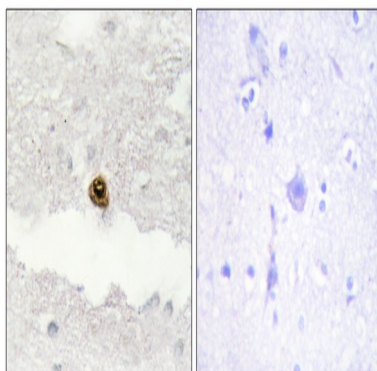


The protein encoded by this gene belongs to the eukaryotic diacylglycerol kinase family. It may attenuate protein kinase C activity by regulating diacylglycerol levels in intracellular signaling cascade and signal transduction. Alternative splicing occurs at this locus and multiple transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Nov 2010],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 specificity:Highest levels in brain, and substantial levels in skeletal muscle, heart, and pancreas. Isoform 1 is predominantly expressed in muscle.,

## Research Area

Glycerolipid metabolism;Glycerophospholipid metabolism;Phosphatidylinositol signaling system;

## Image Data



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

## Note

For research use only.