

## Summary

<b>Production Name</b>	DGK- $\delta$ Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	WB,IHC-P,IF-P,IF-F,ICC/IF,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>	DGKD
<b>Alternative Names</b>	DGKD; KIAA0145; Diacylglycerol kinase delta; DAG kinase delta; 130 kDa diacylglycerol kinase; Diglyceride kinase delta; DGK-delta
<b>Gene ID</b>	8527.0
<b>SwissProt ID</b>	Q16760.The antiserum was produced against synthesized peptide derived from human DGKD. AA range:41-90

## Application

<b>Dilution Ratio</b>	WB 1:500-1:2000, IHC-P 1:100-1:300, IF-P/IF-F/ICC/IF 1:200-1:1000, ELISA 1:20000.Not yet tested in other applications.
<b>Molecular Weight</b>	135kDa

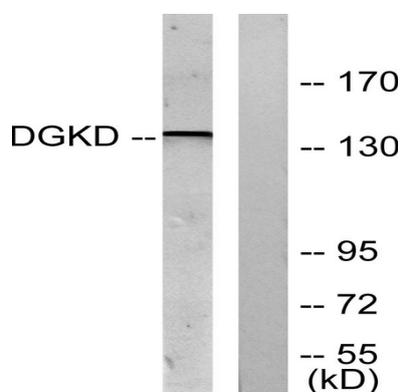
## Background

This gene encodes a cytoplasmic enzyme that phosphorylates diacylglycerol to produce phosphatidic acid. Diacylglycerol and phosphatidic acid are two lipids that act as second messengers in signaling cascades. Their cellular concentrations are regulated by the encoded protein, and so it is thought to play an important role in cellular signal transduction. Alternative splicing results in two transcript variants encoding different isoforms. [provided by RefSeq, Jul 2008],catalytic activity:ATP + 1,2-diacylglycerol = ADP + 1,2-diacyl-sn-glycerol 3-phosphate.,enzyme regulation:Partially inhibited by phosphatidylserine.,function:May function as signaling molecule. Isoform 2 may be involved in cell growth and tumorigenesis.,PTM:Isoform 1 H domain is phosphorylated.,similarity:Belongs to the eukaryotic diacylglycerol kinase family.,similarity:Contains 1 DAGKc domain.,similarity:Contains 1 PH domain.,similarity:Contains 1 SAM (sterile alpha motif) domain.,similarity:Contains 2 phorbol-ester/DAG-type zinc fingers.,subunit:The two isoforms are able to form homo- and hetero-oligomer structures (at least tetramers),,tissue specificity:Isoform 2 is ubiquitously expressed also in tumor tissues. Isoform 1 is expressed in ovary, spleen and some tumor-derived cells.,

## Research Area

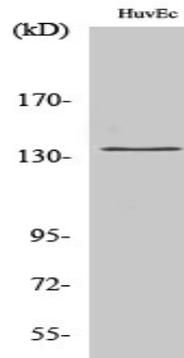
Glycerolipid metabolism;Glycerophospholipid metabolism;Phosphatidylinositol signaling system;

## Image Data



Western blot analysis of lysates from HUVEC cells, using DGKD Antibody. The lane on the right is blocked with the synthesized peptide.

**Product Name: DGK- $\delta$  Rabbit Polyclonal Antibody**  
**Catalog #: APRab09948**



Western Blot analysis of various cells using DGK- $\delta$  Polyclonal Antibody

**Note**

For research use only.