

Product Name: DGK- δ Rabbit Polyclonal Antibody
Catalog #: APRab09948



Summary

Production Name	DGK- δ Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA
Reactivity	Human,Rat,Mouse

Performance

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

Immunogen

Gene Name	DGKD
Alternative Names	DGKD; KIAA0145; Diacylglycerol kinase delta; DAG kinase delta; 130 kDa diacylglycerol kinase; Diglyceride kinase delta; DGK-delta
Gene ID	8527.0
SwissProt ID	Q16760.The antiserum was produced against synthesized peptide derived from human DGKD. AA range:41-90

Application

Dilution Ratio	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.
Molecular Weight	135kDa

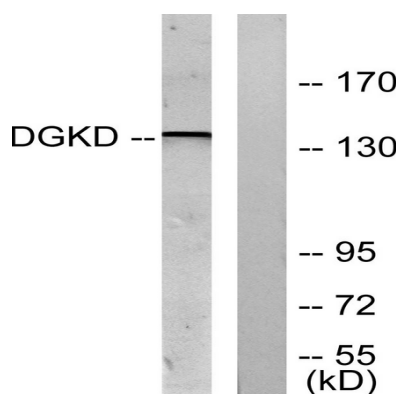
Background

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

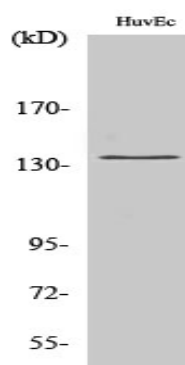
Glycerolipid metabolism; Glycerophospholipid metabolism; Phosphatidylinositol signaling system;

Image Data



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

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Western Blot analysis of various cells using DGK- δ Polyclonal Antibody

Note

For research use only.