
Product Name: DGK- α Rabbit Polyclonal Antibody**Catalog #: APRab09946**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Rat,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
Molecular Weight	80kDa

Antigen Information

Gene Name	DGKA
Alternative Names	DGKA; DAGK; DAGK1; Diacylglycerol kinase alpha; DAG kinase alpha; 80 kDa diacylglycerol kinase; Diglyceride kinase alpha; DGK-alpha
Gene ID	1606.0
SwissProt ID	P23743
Immunogen	The antiserum was produced against synthesized peptide derived from human DGKA. AA range:304-353

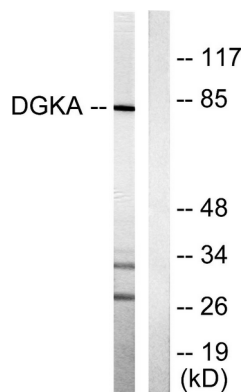
Background

The protein encoded by this gene belongs to the eukaryotic diacylglycerol kinase family. It acts as a modulator that competes with protein kinase C for the second messenger diacylglycerol in intracellular signaling pathways. It also plays an important role in the resynthesis of phosphatidylinositols and phosphorylating diacylglycerol to phosphatidic acid. Alternative splicing occurs at this locus and four transcript variants encoding the same protein have been identified. [provided by RefSeq, Jul 2008],catalytic activity:ATP + 1,2-diacylglycerol = ADP + 1,2-diacyl-sn-glycerol 3-phosphate.,enzyme regulation:Stimulated by calcium and phosphatidylserine. Phosphorylated by protein kinase C.,function:Upon cell stimulation converts the second messenger diacylglycerol into phosphatidate, initiating the resynthesis of phosphatidylinositols and attenuating protein kinase C activity.,similarity:Belongs to the eukaryotic diacylglycerol kinase family.,similarity:Contains 1 DAGKc domain.,similarity:Contains 2 EF-hand domains.,similarity:Contains 2 phorbol-ester/DAG-type zinc fingers.,subunit:Monomer.,tissue specificity:Lymphocytes and oligodendroglial cells.,

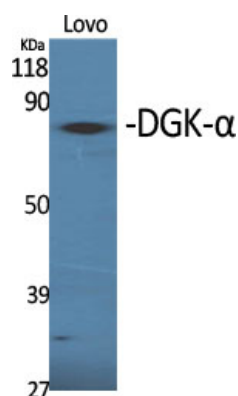
Research Area

Glycerolipid metabolism;Glycerophospholipid metabolism;Phosphatidylinositol signaling system;

Image Data



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



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

Western Blot analysis of Lovo cells using DGK- α Polyclonal Antibody

