

**Product Name: DGK- $\eta$  Rabbit Polyclonal Antibody**  
**Catalog #: APRab09951**



## Summary

<b>Production Name</b>	DGK- $\eta$ Rabbit Polyclonal Antibody
<b>Description</b>	Rabbit Polyclonal Antibody
<b>Host</b>	Rabbit
<b>Application</b>	IHC-P,IF-P,IF-F,ICC/IF,ELISA
<b>Reactivity</b>	Human,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>	DGKH
<b>Alternative Names</b>	DGKH; Diacylglycerol kinase eta; DAG kinase eta; Diglyceride kinase eta; DGK-eta
<b>Gene ID</b>	160851.0
<b>SwissProt ID</b>	Q86XP1.The antiserum was produced against synthesized peptide derived from human DGKH. AA range:771-820

## Application

<b>Dilution Ratio</b>	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>	

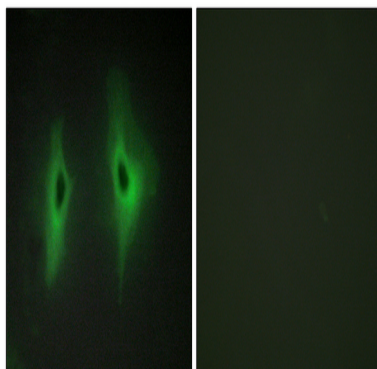
## Background

diacylglycerol kinase eta(DGKH) Homo sapiens This gene encodes a member of the diacylglycerol kinase (DGK) enzyme family. Members of this family are involved in regulating intracellular concentrations of diacylglycerol and phosphatidic acid. Variation in this gene has been associated with bipolar disorder. Alternatively spliced transcript variants have been identified. [provided by RefSeq, Jul 2014],catalytic activity:ATP + 1,2-diacylglycerol = ADP + 1,2-diacyl-sn-glycerol 3-phosphate.,function:Phosphorylates diacylglycerol (DAG) to generate phosphatidic acid (PA).,PTM:Phosphorylated; does not inhibit catalytic activity.,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.,subcellular location:Translocated from the cytoplasm to endosomes in response to stress stimuli. Isoform 2 is rapidly relocated back to the cytoplasm upon removal of stress stimuli, whereas isoform 1 exhibits sustained endosomal association.,subunit:Isoform 1 forms homooligomers through the SAM domain. Isoform 1 is also able to form heterooligomers with SAM domain-containing isoforms of DGKD. Oligomerization of isoform 1 inhibits its catalytic activity.,tissue specificity:Isoform 2 is ubiquitously expressed. Isoform 1 is expressed only in testis, kidney and colon.,

## Research Area

Glycerolipid metabolism;Glycerophospholipid metabolism;Phosphatidylinositol signaling system;

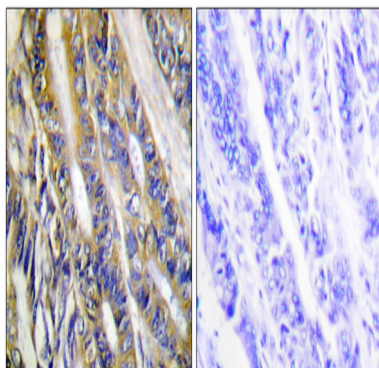
## Image Data



Immunofluorescence analysis of HeLa cells, using DGKH Antibody. The picture on the right is blocked with the synthesized peptide.

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Immunohistochemistry analysis of paraffin-embedded human colon carcinoma tissue, using DGKH Antibody. The picture on the right is blocked with the synthesized peptide.

#### **Note**

For research use only.