

**DGKA Antibody (C-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8128b**

**Specification**

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**DGKA Antibody (C-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P23743</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	598-628

**DGKA Antibody (C-term) - Additional Information**

**Gene ID** 1606

**Other Names**

Diacylglycerol kinase alpha, DAG kinase alpha, 80 kDa diacylglycerol kinase, Diglyceride kinase alpha, DGK-alpha, DGKA, DAGK, DAGK1

**Target/Specificity**

This DGKA antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 598-628 amino acids from the C-terminal region of human DGKA.

**Dilution**

WB~~1:1000

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

DGKA Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**DGKA Antibody (C-term) - Protein Information**

**Name** DGKA

**Synonyms** DAGK, DAGK1

**Function** Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic

acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:[2175712](#), PubMed:[15544348](#)). Thereby, acts as a central switch between the signaling pathways activated by these second messengers with different cellular targets and opposite effects in numerous biological processes (PubMed:[2175712](#), PubMed:[15544348](#)). Also plays an important role in the biosynthesis of complex lipids (Probable). Can also phosphorylate 1-alkyl-2-acylglycerol in vitro as efficiently as diacylglycerol provided it contains an arachidonoyl group (PubMed:[15544348](#)). Also involved in the production of alkyl-lysophosphatidic acid, another bioactive lipid, through the phosphorylation of 1-alkyl-2-acetyl glycerol (PubMed:[22627129](#)).

#### Cellular Location

Cytoplasm, cytosol.

#### Tissue Location

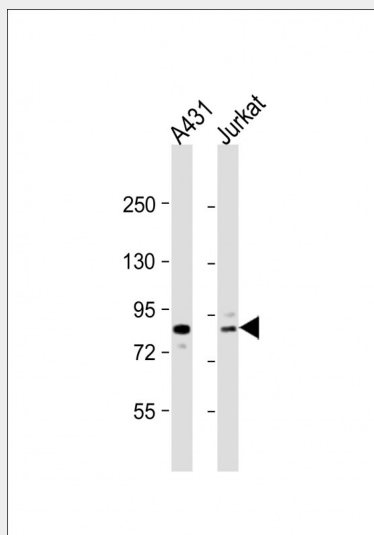
Expressed in lymphocytes.

### DGKA Antibody (C-term) - Protocols

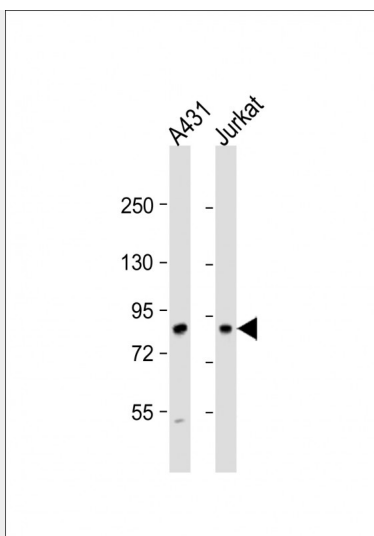
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### DGKA Antibody (C-term) - Images



All lanes : Anti-DGKA Antibody (C-term) at 1:1000 dilution Lane 1: A431 whole cell lysate Lane 2: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 83 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



All lanes : Anti-DGKA Antibody (C-term) at 1:1000 dilution Lane 1: A431 whole cell lysate Lane 2: Jurkat whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 83 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

#### **DGKA Antibody (C-term) - Background**

Upon cell stimulation, the kinase DGKA converts the second messenger diacylglycerol into phosphatidate, initiating the resynthesis of phosphatidylinositols and attenuating protein kinase C activity. DGKA is stimulated by calcium and phosphatidylserine, and is phosphorylated by protein kinase C. Tissue expression is in lymphocytes and oligodendroglial cells. DGKA contains 2 zinc-dependent phorbol-ester and DAG binding domains, and 2 EF-hand calcium binding domains.

#### **DGKA Antibody (C-term) - References**

Hart, T.C., et al., Genomics 22(1):246-247 (1994).  
Hart, T.C., et al., Mamm. Genome 5(2):123-124 (1994).  
Schaap, D., et al., FEBS Lett. 275 (1-2), 151-158 (1990).