

KD-Validated Anti-Diacylglycerol Kinase Alpha Mouse Monoclonal Antibody
Mouse monoclonal antibody
Catalog # AGI1938**Specification****KD-Validated Anti-Diacylglycerol Kinase Alpha Mouse Monoclonal Antibody - Product Information**

Application	WB, FC
Primary Accession	P23743
Reactivity	Human
Clonality	Monoclonal
Isotype	Mouse IgG2a
Calculated MW	Predicted, 83 kDa, observed, 74 kDa KDa
Gene Name	DGKA
Aliases	DGKA; Diacylglycerol Kinase Alpha; DGK-Alpha; DAGK1; DAGK; Diacylglycerol Kinase, Alpha 80kDa; 80 KDa Diacylglycerol Kinase; Diglyceride Kinase Alpha; DAG Kinase Alpha; EC 2.7.1.107; Diacylglycerol Kinase, Alpha (80kD); EC 2.7.1.93
Immunogen	Recombinant protein of human DGKA

KD-Validated Anti-Diacylglycerol Kinase Alpha Mouse Monoclonal Antibody - Additional Information

Gene ID	1606
Other Names	Diacylglycerol kinase alpha, DAG kinase alpha, 2.7.1.107, 2.7.1.93, 80 kDa diacylglycerol kinase, Diglyceride kinase alpha, DGK-alpha, DGKA, DAGK, DAGK1

KD-Validated Anti-Diacylglycerol Kinase Alpha Mouse Monoclonal Antibody - 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:15544348, PubMed:2175712). 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:15544348, PubMed:2175712). 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

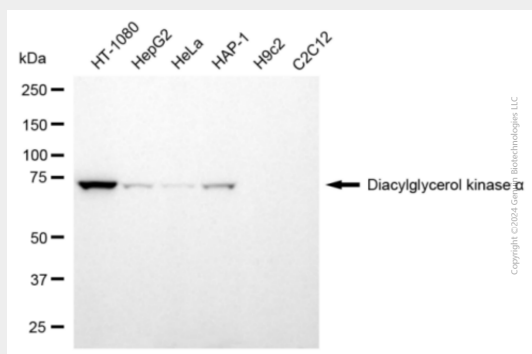
Expressed in lymphocytes.

KD-Validated Anti-Diacylglycerol Kinase Alpha Mouse Monoclonal Antibody - Protocols

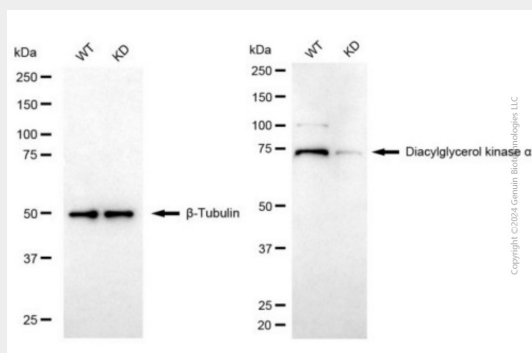
Provided below are standard protocols that you may find useful for product applications.

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

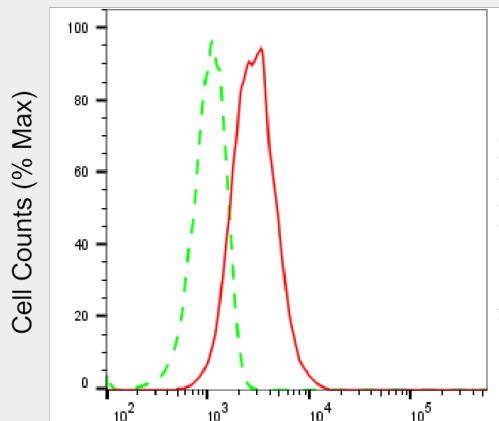
KD-Validated Anti-Diacylglycerol Kinase Alpha Mouse Monoclonal Antibody - Images



Western blotting analysis using anti-diacylglycerol kinase alpha antibody (Cat#AGI1938). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-diacylglycerol kinase alpha antibody (Cat#AGI1938, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Western blotting analysis using anti-diacylglycerol kinase alpha antibody (Cat#AGI1938). Diacylglycerol kinase alpha expression in wild type (WT) and diacylglycerol kinase alpha (DGKA) knockdown (KD) HSHC cells with 20 μ g of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with anti-diacylglycerol kinase alpha antibody (Cat#AGI1938, 1:5,000) and HRP-conjugated goat anti-mouse secondary antibody respectively.



Diacylglycerol kinase alpha-Alexa Fluor® 647

Flow cytometric analysis of Diacylglycerol kinase alpha expression in HT-1080 cells using anti-Diacylglycerol kinase alpha antibody (Cat#AGI1938, 1:2,000). Green, isotype control; red, Diacylglycerol kinase alpha.