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KD-Validated Anti-DGKA Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI2112

Specification

KD-Validated Anti-DGKA Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC**
Primary Accession	P23743
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 83 kDa, observed, 75 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-DGKA Rabbit 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-DGKA Rabbit 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.

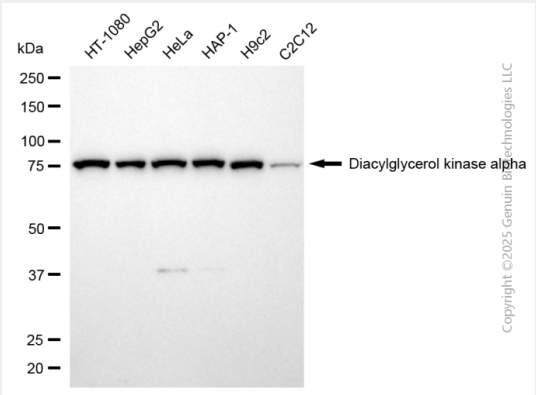
Tissue Location
Expressed in lymphocytes.

KD-Validated Anti-DGKA Rabbit Monoclonal Antibody - Protocols

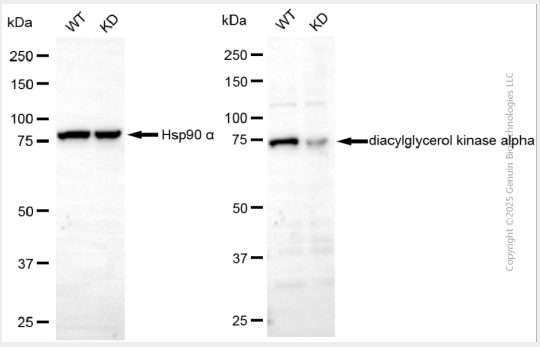
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-DGKA Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-diacylglycerol kinase alpha antibody (Cat#AGI2112). 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#AGI2112, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-diacylglycerol kinase alpha antibody (Cat#AGI2112).

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Diacylglycerol kinase alpha expression in wild-type (WT) and diacylglycerol kinase alpha (DGKA) knockdown (KD) HSHC cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-diacylglycerol kinase alpha antibody (Cat#AGI2112, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.