

[KD]DGKA Rabbit mAb

Catalog # AP76467

Product Information

Application	WB, IHC-P, IP
Primary Accession	P23743
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	82630

Additional Information

Gene ID	1606
Other Names	DGKA
Dilution	WB~~1:500-1:1000 IHC-P~~N/A IP~~1:20-1:50
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

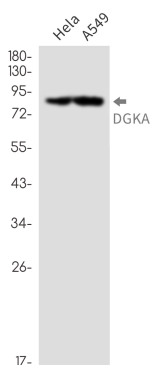
Protein Information

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.

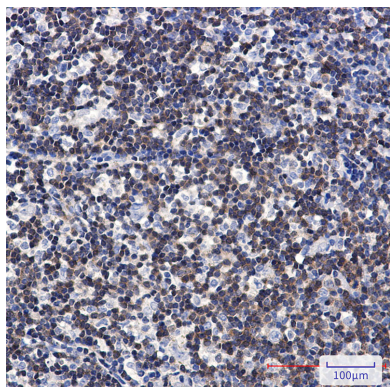
Background

DGKA(Diacylglycerol kinase alpha) is also named as DAGK, DAGK1 and belongs to the eukaryotic diacylglycerol kinase family, which is suggested to attenuate diacylglycerol-induced cell responses through the phosphorylation of this second messenger to phosphatidic acid. DGKA regulates the secretion of lethal exosomes bearing Fas ligand during activation-induced cell death of T lymphocytes.

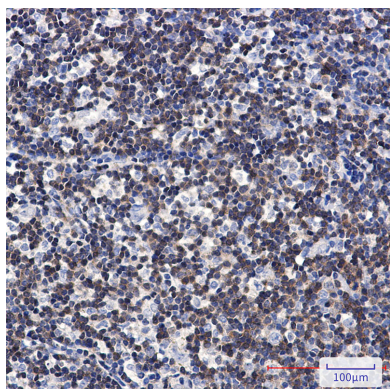
Images



Western blot analysis of DGKA in HeLa, A549 lysates using DGKA antibody.



Immunohistochemistry analysis of paraffin-embedded Human tonsil using DGKA antibody. High-pressure and temperature Sodium Citrate pH 6.0 was used for antigen retrieval.



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