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[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

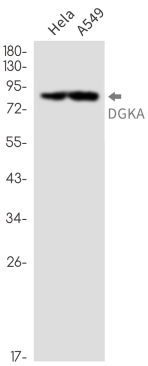
Name	DGKA
Synonyms	DAGK, DAGK1
Function	Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:15544348, PubMed:2175712). Thereby, acts as a central switch between the signaling pathways 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.

Tissue Location	Expressed in lymphocytes.

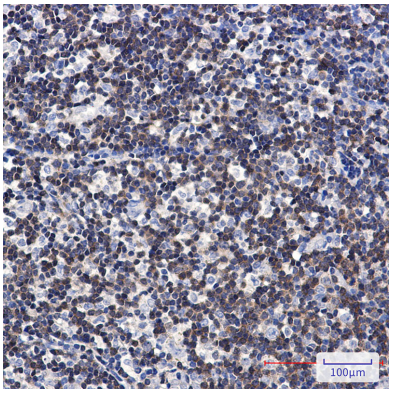
Background

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.

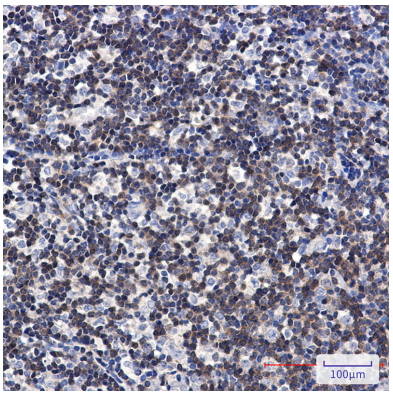
Images



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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