DGK alpha Rabbit monoclonal antibody

Catalog: MB66431 Host: Rabbit Reactivity: Human

BackGround:

Diacylglycerol kinase alpha (DGKA) is a type 1 diacylglycerol kinase that competes with protein kinase C to convert messenger diacylglycerol (DAG) to phosphatidic acid. Upon activation of this intracellular lipid kinase, DGKA rapidly relocates from the cytosol to the plasma membrane where it is involved in multiple cellular processes, including regulating lipid and glucose metabolism levels, cell growth, and cell signaling. Expression of DGKA is high in T lymphocytes, and detectable in endothelial cells, epithelial cells, fibroblasts, and oligodendrocytes. DGKA negatively regulates T cell receptor-dependent responses through phosphorylation of phospholipase C-derived DAG. In contrast, DGKA-dependent phosphatidic acid generation by phosphorylation of a pre-existing DAG pool is necessary for IL-2-dependent T cell proliferation. DGKA is frequently overexpressed in cancer, promoting tumor cell survival, proliferation, invasion, and metastasis. Due to its role in immunity and cancer, targeting DGKA represents a unique opportunity for therapeutic intervention in cancer.

Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

Molecular Weight:

~ 80 kDa

Swiss-Prot:

P23743

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/100), IP (1/10 - 1/50)

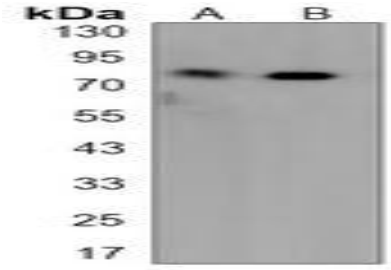
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

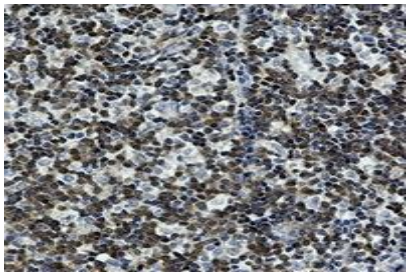
Specificity:

Recognizes endogenous levels of DGK alpha protein.

DATA:



Western blot analysis of DGK alpha expression in Hela (A), A549 (B) whole cell lysates.



Immunohistochemical analysis of DGK alpha staining in human tonsil formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.127). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Note:

For research use only, not for use in diagnostic procedure.

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