

DGK- α Polyclonal Antibody

Catalog # AP69514

Product Information

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|--------------------------|------------------------|
| Application | WB, IHC-P |
| Primary Accession | P23743 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 82630 |

Additional Information

| | |
|---------------------------|---|
| Gene ID | 1606 |
| Other Names | DGKA; DAGK; DAGK1; Diacylglycerol kinase alpha; DAG kinase alpha; 80 kDa diacylglycerol kinase; Diglyceride kinase alpha; DGK-alpha |
| Dilution | WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/20000. Not yet tested in other applications. IHC-P~~N/A |
| Format | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide. |
| Storage Conditions | -20°C |

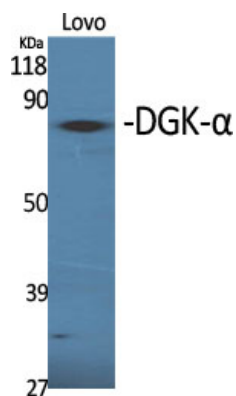
Protein Information

| | |
|--------------------------|---|
| 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. |

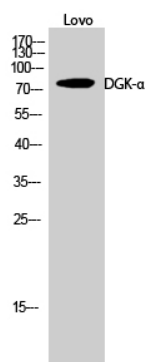
Background

Upon cell stimulation converts the second messenger diacylglycerol into phosphatidate, initiating the resynthesis of phosphatidylinositols and attenuating protein kinase C activity.

Images



Western Blot analysis of various cells using DGK-α Polyclonal Antibody



Western Blot analysis of Lovo cells using DGK-α Polyclonal Antibody

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