

Anti-DGK epsilon Antibody
Catalog # AP53847**Specification**

Anti-DGK epsilon Antibody - Product Information

Application	WB
Primary Accession	P52429
Reactivity	Human, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63927

Anti-DGK epsilon Antibody - Additional Information**Gene ID** 8526**Other Names**

DAGK5; Diacylglycerol kinase epsilon; DAG kinase epsilon; Diglyceride kinase epsilon; DGK-epsilon

Target/Specificity

Recognizes endogenous levels of DGK epsilon protein.

Dilution

WB~~1/500 - 1/1000

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C.Stable for 12 months from date of receipt

Anti-DGK epsilon Antibody - Protein Information**Name** DGKE**Synonyms** DAGK5**Function**

Membrane-bound diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:15544348, PubMed:19744926, PubMed:22108654, PubMed:21477596, PubMed:23949095). 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:8626589, PubMed:15544348). Also plays an important role in the biosynthesis of complex lipids (PubMed:8626589). Displays specificity for diacylglycerol substrates with an arachidonoyl acyl chain at the sn-2 position, with the highest activity toward 1-octadecanoyl-2- (5Z,8Z,11Z,14Z-eicosatetraenoyl)-sn-glycerol the main diacylglycerol intermediate within the phosphatidylinositol turnover cycle (PubMed:19744926, PubMed:22108654, PubMed:23274426). Can also phosphorylate diacylglycerol substrates with a linoleoyl acyl chain at the sn-2 position but much less efficiently (PubMed:22108654).

Cellular Location

Membrane; Single- pass membrane protein. Cytoplasm

Tissue Location

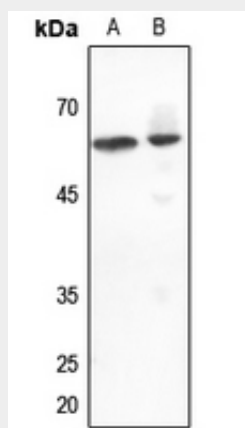
Expressed predominantly in testis. Expressed in endothelium, platelets and podocytes (at protein level)

Anti-DGK epsilon 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 Cytometry](#)
- [Cell Culture](#)

Anti-DGK epsilon Antibody - Images



Western blot analysis of DGK epsilon expression in HEK293T (A), rat spleen (B) whole cell lysates.

Anti-DGK epsilon Antibody - Background

Rabbit polyclonal antibody to DGK epsilon