

DGKE Rabbit pAb

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Catalog # AP55036

Product Information

Application	WB
Primary Accession	P52429
Reactivity	Mouse
Predicted	Rat, Pig, Dog, Human, Rabbit, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	63927
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DGKE
Epitope Specificity	1-100/567
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Highly selective for arachidonate-containing species of diacylglycerol (DAG). May terminate signals transmitted through arachidonoyl-DAG or may contribute to the synthesis of phospholipids with defined fatty acid composition.

Additional Information

Gene ID	8526
Other Names	Diacylglycerol kinase epsilon, DAG kinase epsilon, 2.7.1.107, Diglyceride kinase epsilon, DGK-epsilon, DGKE, DAGK5
Dilution	WB=1:500-2000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

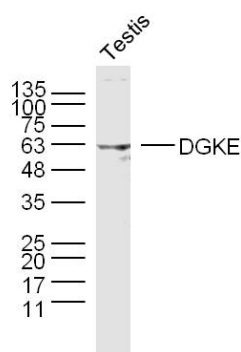
Name	DGKE
Synonyms	DAGK5

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: 21477596 , PubMed: 22108654 , 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: 15544348 , PubMed: 8626589). 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)

Background

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Images



Sample: Testis (Mouse) Lysate at 40 ug
 Primary: Anti-DGKE (AP55036) at 1/300 dilution
 Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
 Predicted band size: 64 kD
 Observed band size: 64 kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.