10320 Camino Santa Fe, Suite G
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Tel: 858.875.1900 Fax: 858.875.1999

DGKE Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP55036

Specification

DGKE Polyclonal Antibody - Product Information

Application	**WB**
Primary Accession	P52429
Reactivity	**Rat, Pig, Dog, Bovine**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**63927**

DGKE Polyclonal Antibody - Additional Information

Gene ID 8526

Other Names
Diacylglycerol kinase epsilon, DAG kinase epsilon, 2.7.1.107, Diglyceride kinase epsilon, DGK-epsilon, DGKE, DAGK5

Format
0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage
Store at -20 ℃ 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 ℃.

DGKE Polyclonal 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: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

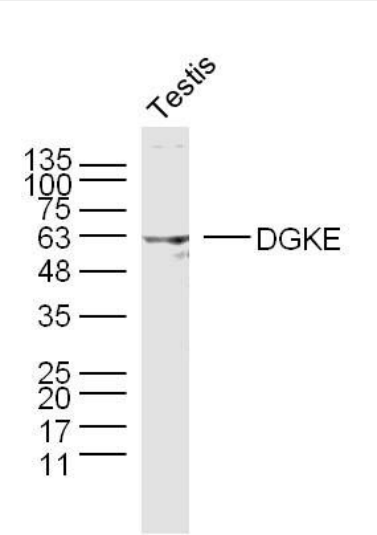
Tissue Location
Expressed predominantly in testis. Expressed in endothelium, platelets and podocytes (at protein level)

DGKE Polyclonal 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 Cytomety
- Cell Culture

DGKE Polyclonal Antibody - Images



Sample: Testis (Mouse) Lysate at 40 ug
Primary: Anti-DGKE (bs-12999R) at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 64 kD
Observed band size: 64 kD

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