10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

DGKD Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8126b

Specification

DGKD Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	Q16760
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**134525**
Antigen Region	**1061-1091**

DGKD Antibody (C-term) - Additional Information

Gene ID 8527

Other Names
Diacylglycerol kinase delta, DAG kinase delta, 130 kDa diacylglycerol kinase, Diglyceride kinase delta, DGK-delta, DGKD, KIAA0145

Target/Specificity
This DGKD antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 1061-1091 amino acids from the C-terminal region of human DGKD.

Dilution
WB~~1:1000
IHC-P~~1:50~100

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
DGKD Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DGKD Antibody (C-term) - Protein Information

Name DGKD (HGNC:2851)

Function Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic

acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:12200442, 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 (Probable). By controlling the levels of diacylglycerol, regulates for instance the PKC and EGF receptor signaling pathways and plays a crucial role during development (By similarity). May also regulate clathrin-dependent endocytosis (PubMed:17880279).

Cellular Location
Membrane, clathrin-coated pit. Cytoplasm

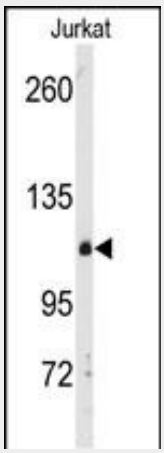
Tissue Location
[Isoform 2]: Widely expressed.

DGKD Antibody (C-term) - 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

DGKD Antibody (C-term) - Images



Western blot analysis of anti-anti-DGK delta Pab (Cat. #AP8126b) in Jurkat cell line lysates (35ug/lane). DGK delta (arrow) was detected using the purified Pab.

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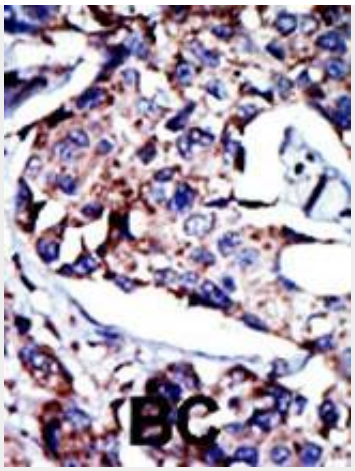

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

DGKD Antibody (C-term) - Background

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the g phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The AGC kinase group consists of 63 kinases including the cyclic nucleotide-regulated protein kinase (PKA & PKG) family, the diacylglycerol-activated/phospholipid-dependent protein kinase C (PKC) family, the related to PKA and PKC (RAC/Akt) protein kinase family, the kinases that phosphorylate G protein-coupled receptors family (ARK), and the kinases that phosphorylate ribosomal protein S6 family (RSK).

DGKD Antibody (C-term) - References

Sakane, F., et al., J. Biol. Chem. 271(14):8394-8401 (1996). Nagase, T., et al., DNA Res. 2(4):167-174 (1995).

DGKD Antibody (C-term) - Citations

- Intracellular localization of diacylglycerols and sphingolipids influences insulin sensitivity and mitochondrial function in human skeletal muscle.