

DGKD Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP8126a**Specification**

DGKD Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q16760](#)**DGKD Antibody (N-term) Blocking Peptide - 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

The synthetic peptide sequence used to generate the antibody [AP8126a](/product/products/AP8126a) was selected from the N-term region of human DGKD. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

DGKD Antibody (N-term) Blocking Peptide - 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](http://www.uniprot.org/citations/12200442), PubMed: [23949095](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/17880279)).

Cellular Location

Membrane, clathrin-coated pit. Cytoplasm

Tissue Location

[Isoform 2]: Widely expressed.

DGKD Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

DGKD Antibody (N-term) Blocking Peptide - Images**DGKD Antibody (N-term) Blocking Peptide - Background**

Diacylglycerol (DAG) is an allosteric activator of protein kinase C. DAG also participates in regulating RAS and RHO family proteins by activating the guanine nucleotide exchange factors VAV and RASGRP1. DAG is also involved in the synthesis of phospholipids and triacylglycerols. Tight regulation of DAG levels is achieved via DAG kinases (DGKs), which remove DAG by phosphorylate it to phosphatidic acid. Several mammalian isozymes of DAGK have been identified

DGKD Antibody (N-term) Blocking Peptide - References

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