

**DGKB Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP8127a****Specification**

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**DGKB Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [Q9Y6T7](#)**DGKB Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 1607**Other Names**

Diacylglycerol kinase beta, DAG kinase beta, 90 kDa diacylglycerol kinase, Diglyceride kinase beta, DGK-beta, DGKB, DAGK2, KIAA0718

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP8127a](/product/products/AP8127a) was selected from the N-term region of human DGKB. 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.

**DGKB Antibody (N-term) Blocking Peptide - Protein Information****Name** DGKB**Synonyms** DAGK2, KIAA0718**Function**

Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed: [11719522](http://www.uniprot.org/citations/11719522)). 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). Has a higher activity with long-chain diacylglycerols like 1,2-di-(9Z-octadecenoyl)-sn-glycerol compared to 1,2-didecanoyl-sn-glycerol (By similarity). Specifically expressed in brain, it regulates neuron-specific morphological changes including neurite branching and neurite spine formation (By similarity).

**Cellular Location**

Postsynaptic cell membrane {ECO:0000250|UniProtKB:Q6NS52}; Peripheral membrane protein {ECO:0000250|UniProtKB:Q6NS52}. Cell membrane; Peripheral membrane protein. Cytoplasm  
Note=Translocation to the plasma membrane is induced by phorbol esters

**Tissue Location**

[Isoform 1]: Specifically expressed in brain but also detected in uterus (PubMed:11719522). In adult brain, expressed in the amygdala, caudate nucleus, and hippocampus (PubMed:11719522)

**DGKB Antibody (N-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**DGKB Antibody (N-term) Blocking Peptide - Images****DGKB 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

**DGKB Antibody (N-term) Blocking Peptide - References**

Caricasole, A., et al., J. Biol. Chem. 277(7):4790-4796 (2002).