

DGK- β Polyclonal Antibody
Catalog # AP69515**Specification**

DGK- β Polyclonal Antibody - Product Information

Application	WB
Primary Accession	Q9Y6T7
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

DGK- β Polyclonal Antibody - Additional Information**Gene ID** 1607**Other Names**

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

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/40000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

DGK- β Polyclonal Antibody - 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). 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

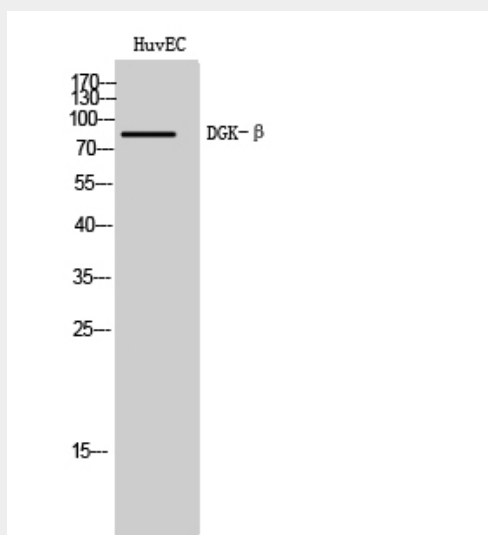
[Isoform 1]: Specifically expressed in brain but also detected in uterus (PubMed:11719522). In adult brain, expressed in the amygdala, caudate nucleus, and hippocampus (PubMed:11719522)

DGK- β 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 Cytometry](#)
- [Cell Culture](#)

DGK- β Polyclonal Antibody - Images



Western Blot analysis of HuvEC cells using DGK- β Polyclonal Antibody

DGK- β Polyclonal Antibody - Background

Exhibits high phosphorylation activity for long-chain diacylglycerols.