

DGK- β Polyclonal Antibody

Catalog # AP69515

Product Information

| | |
|-------------------|------------------------|
| Application | WB |
| Primary Accession | Q9Y6T7 |
| Reactivity | Human, Mouse, Rat |
| Host | Rabbit |
| Clonality | Polyclonal |
| Calculated MW | 90595 |

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 |

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 |

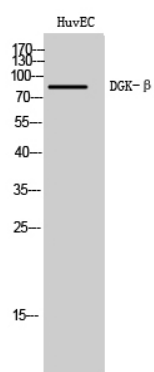
Tissue Location

[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)

Background

Exhibits high phosphorylation activity for long-chain diacylglycerols.

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.