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Anti-DGK beta Antibody

Catalog # AP59534

Product Information

Application	WB, IF/IC
Primary Accession	Q9Y6T7
Reactivity	Human, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90595

Additional Information

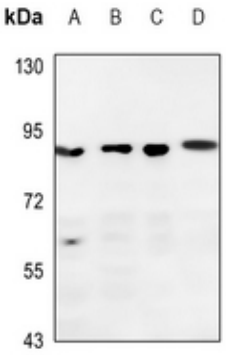
Gene ID	1607
Other Names	DAGK2; KIAA0718; Diacylglycerol kinase beta; DAG kinase beta; 90 kDa diacylglycerol kinase; Diglyceride kinase beta; DGK-beta
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human DGK beta. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

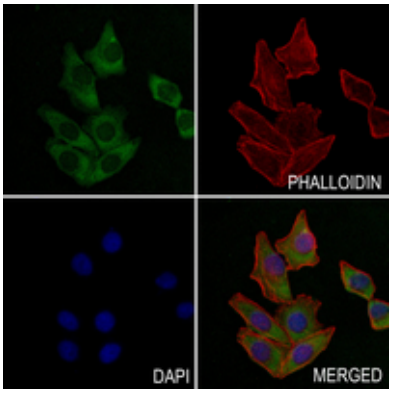
Name	DGKB
Synonyms	DAGK2, KIAA0718
Function	Diacylglycerol kinase that converts diacylglycerol/DAG into phosphatidic acid/phosphatidate/PA and regulates the respective levels of these two bioactive lipids (PubMed:11719522). Thereby, acts as a central switch between the signaling pathways activated by 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)

Images



Western blot analysis of DGK beta expression in Hela (A), DLD (B), HGC27 (C), U2OS (D) whole cell lysates. (Predicted band size: 90 kD; Observed band size: 91 kD)



Immunofluorescent analysis of DGK beta staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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