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DGKB Rabbit pAb

Catalog # AP99355

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q9Y6T7
Other Accession	Q9Y6T7
Reactivity	Mouse
Predicted	Rat, Human, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	90595
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human DGKB
Epitope Specificity	1-100/804
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the eukaryotic diacylglycerol kinase family. Contains 1 DAGKc domain. Contains 2 EF-hand domains. Contains 2 phorbol-ester/DAG-type zinc fingers.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Diacylglycerol kinases (DGKs) are regulators of the intracellular concentration of the second messenger diacylglycerol (DAG) and thus play a key role in cellular processes. Nine mammalian isotypes have been identified, which are encoded by separate genes. Mammalian DGK isozymes contain a conserved catalytic (kinase) domain and a cysteine-rich domain (CRD). The protein encoded by this gene is a diacylglycerol kinase, beta isotype. Two alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Jul 2008]

Additional Information

Gene ID	1607
Other Names	DAGK2; DGK; DGK-BETA; 6430574F24; 90kda; C630029D13Rik; mKIAA0718; DGKB_HUMAN; DGKB; DAG kinase beta; 90 kDa diacylglycerol kinase; Diglyceride kinase beta (DGK-beta); 2.7.1.107; KIAA0718; DGKB_MOUSE; diacylglycerol kinase beta; diacylglycerol kinase, beta (90kD); diacylglycerol kinase, beta 90kDa
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °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)

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