



DGK-I Monoclonal Antibody

Catalog No	YP-mAb-14728
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	DGKI
Immunogen	The antiserum was produced against synthesized peptide derived from human DGKI. AA range:991-1040
Specificity	DGK-I Monoclonal Antibody detects endogenous levels of DGK-I protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DAG kinase iota;DGK iota;DGKiota;Diacylglycerol kinase iota;Diglyceride kinase iota;DGK-I;DGKI;DGK-iota
Observed Band	160kD
Calculated Molecular Weight	160kD
Cell Pathway	Cell projection, axon . Cell projection, dendrite . Cell junction, synapse, presynapse . Cell junction, synapse, postsynapse . Cell junction, synapse, postsynaptic density . Cell junction, synapse, synaptic cell membrane . Cytoplasmic vesicle, secretory vesicle, synaptic vesicle membrane . Cytoplasm, cytosol . Nucleus . Excluded from inhibitory synapses (By similarity). Localization between cytoplasm and nucleus is regulated by protein kinase C (PubMed:9830018). Both in the detergent soluble and particulate fractions (By similarity). .
Tissue Specificity	Specifically expressed in brain and retina (PubMed:9830018). In brain, highly expressed in hippocampus, caudate nucleus, occipital pole, cerebral cortex, and cerebellum (PubMed:9830018). Also detected in kidney (PubMed:15894621).



Function

catalytic activity:ATP + 1,2-diacylglycerol = ADP + 1,2-diacyl-sn-glycerol 3-phosphate.,similarity:Belongs to the eukaryotic diacylglycerol kinase family.,similarity:Contains 1 DAGKc domain.,similarity:Contains 2 ANK repeats.,similarity:Contains 2 phorbol-ester/DAG-type zinc fingers.,

Background

This gene is a member of the type IV diacylglycerol kinase subfamily. Diacylglycerol kinases regulate the intracellular concentration of diacylglycerol through its phosphorylation, producing phosphatidic acid. The specific role of the enzyme encoded by this gene is undetermined, however, it may play a crucial role in the production of phosphatidic acid in the retina or in recessive forms of retinal degeneration. [provided by RefSeq, Jul 2008],

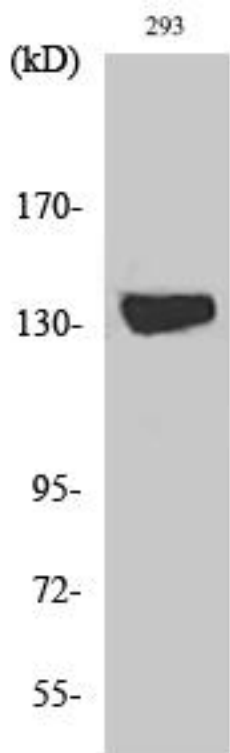
matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using DGK- α Monoclonal Antibody