



DGK-ζ Polyclonal Antibody

Catalog No	YP-Ab-14725
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	IHC;IF;ELISA
Gene Name	DGKZ
Protein Name	Diacylglycerol kinase zeta
Immunogen	The antiserum was produced against synthesized peptide derived from human DGKZ. AA range:601-650
Specificity	DGK-ζ Polyclonal Antibody detects endogenous levels of DGK-ζ protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	IHC: 1/100 - 1/300. ELISA: 1/20000.. IF 1:50-200
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DGKZ; DAGK6; Diacylglycerol kinase zeta; DAG kinase zeta; Diglyceride kinase zeta; DGK-zeta
Observed Band	
Cell Pathway	Nucleus . Cytoplasm, cytosol . Cell membrane . Cell projection, lamellipodium .
Tissue Specificity	Highest levels in brain, and substantial levels in skeletal muscle, heart, and pancreas. ; [Isoform 2]: Predominantly expressed in muscle.
Function	catalytic activity:ATP + 1,2-diacylglycerol = ADP + 1,2-diacyl-sn-glycerol 3-phosphate.,caution:The sequence shown here is derived from an Ensembl automatic analysis pipeline and should be considered as preliminary data.,function:Displays a strong preference for 1,2-diacylglycerols over 1,3-diacylglycerols, but lacks substrate specificity among molecular species of long chain diacylglycerols. Isoform 2 but not isoform 1 regulates RASGRP1 activity.,PTM:Phosphorylation of the MARCKS homology domain by PKC reduces nuclear accumulation of DGK-zeta.,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.,subunit:Interacts with the PDZ domain of the syntrophin SNTG1 and that of SNX27. Isoform 2 forms a signaling complex with RASGRP1 and HRAS.,tissue speci



Background

The protein encoded by this gene belongs to the eukaryotic diacylglycerol kinase family. It may attenuate protein kinase C activity by regulating diacylglycerol levels in intracellular signaling cascade and signal transduction. Alternative splicing occurs at this locus and multiple transcript variants encoding distinct isoforms have been identified. [provided by RefSeq, Nov 2010],

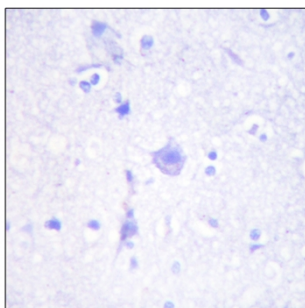
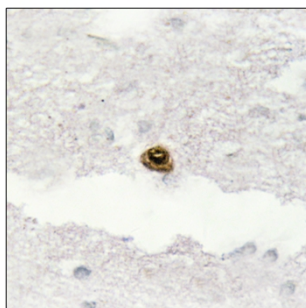
matters needing attention

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



Immunohistochemistry analysis of paraffin-embedded human brain, using DGKZ Antibody. The picture on the right is blocked with the synthesized peptide.