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Rabbit Anti-DGKZ antibody

SL14301R

Product Name	DGKZ
Chinese Name	甘油二酯激酶 ζ/DGK-ζ 抗体
Alias	DAG kinase zeta; DAGK5; DAGK5 PEN; DAGK6; DGK ZETA; DGK-zeta; Dgkz; DGKZ_HUMAN; Diacylglycerol kinase zeta; Diglyceride kinase zeta; hDGKzeta.
Research Area	Cardiovascular Cell biology Signal transduction The new supersedes the old
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Rat(predicted:Human,Mouse,Pig,Cow,GuineaPig)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	124kDa
Cellular localization	The nucleus cytoplasmic The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human DGKZ: 851-928/928
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
PubMed	PubMed
Product	The protein encoded by this gene belongs to the eukaryotic diacylglycerol kinase

Detail

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]

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.

Subcellular Location:
Cytoplasm. Nucleus. Cell membrane.

Tissue Specificity:
Highest levels in brain, and substantial levels in skeletal muscle, heart, and pancreas. Isoform 1 is predominantly expressed in muscle.

Post-translational modifications:
Phosphorylation of the MARCKS homology domain by PKC reduces nuclear accumulation of DGK-zeta.

Similarity:
Belongs to the eukaryotic diacylglycerol kinase family.
Contains 2 ANK repeats.
Contains 1 DAGKc domain.
Contains 2 phorbol-ester/DAG-type zinc fingers.

SWISS:
Q13574

Gene ID:
8525

Database links:

Entrez Gene: 8525 Human

Entrez Gene: 423197 Chicken

Entrez Gene: 483635 Dog

Entrez Gene: 100050499 Horse

Entrez Gene: 104418 Mouse

Entrez Gene: 81821 Rat

Omim: 601441 Human

SwissProt: Q13574 Human

SwissProt: Q80UP3 Mouse

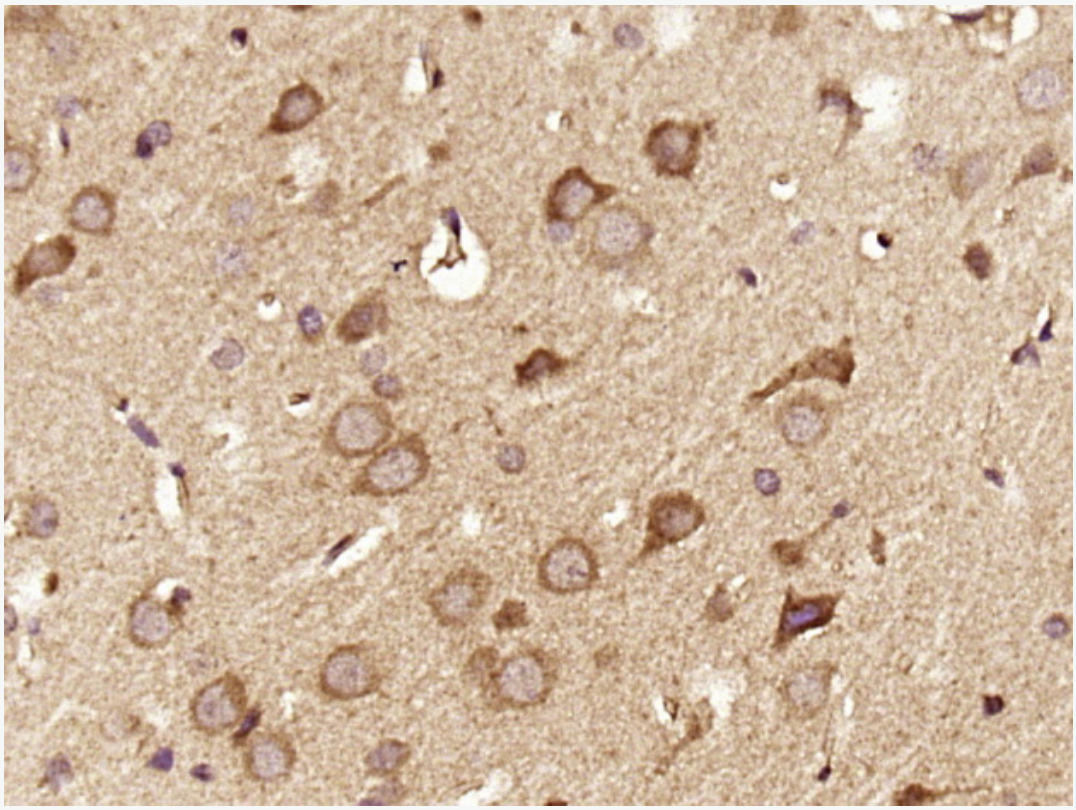
SwissProt: O08560 Rat

Unigene: 502461 Human

Unigene: 314923 Mouse

Unigene: 11208 Rat

Product Picture



Paraformaldehyde-fixed, paraffin embedded (Rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase

by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DGKZ) Polyclonal Antibody, Unconjugated (SL14301R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructionsand DAB staining.