SunLong Biotech Co.,LTD
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Rabbit Anti-DGKG antibody

SL14297R

Product Name	DGKG
Chinese Name	甘油二酯激酶 γ/DGK-γ 抗体
Alias	DAG kinase gamma; DAGK3; DGK gamma; DGKG; DGKG_HUMAN; diacylglycerol kinase gamma 90kDa; Diacylglycerol kinase gamma; Diglyceride kinase; Diglyceride kinase gamma.
Research Area	Cell biology Signal transduction The new supersedes the old
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	Rat(predicted:Human,Mouse,Dog,Horse,Rabbit)
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	89kDa
Cellular localization	cytoplasmic The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human DGKE: 15-120/791
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

This gene encodes an enzyme that is a member of the type I subfamily of diacylglycerol kinases, which are involved in lipid metabolism. These enzymes generate phosphatidic acid by catalyzing the phosphorylation of diacylglycerol, a fundamental lipid second messenger that activates numerous proteins, including protein kinase C isoforms, Ras guanyl nucleotide-releasing proteins and some transient receptor potential channels. Diacylglycerol kinase gamma has been implicated in cell cycle regulation and in the negative regulation of macrophage differentiation in leukemia cells. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]

Function:
DGKG (Diacylglycerol kinase gamma) reverses the normal flow of glycerolipid biosynthesis by phosphorylating diacylglycerol back to phosphatidic acid. This enzyme initiates resynthesis of phosphoinositides consumed by phospholipase C during cellular signal transduction. DGK gamma is one of multiple DGK isozymes found in animal cells. It is expressed abundantly in the human retina and to a much lesser extent in the brain. Other tissues contain extremely low levels.

Subcellular Location:
Cell Membrane and Cytoplasmic.

Product Detail

SWISS:
P49619

Gene ID:
1608

Database links:

Entrez Gene: 1608 Human

Entrez Gene: 110197 Mouse

Entrez Gene: 25666 Rat

Omim: 601854 Human

SwissProt: P49619 Human

SwissProt: Q2M1H4 Human

SwissProt: Q5FWG1 Human

SwissProt: Q91WG7 Mouse

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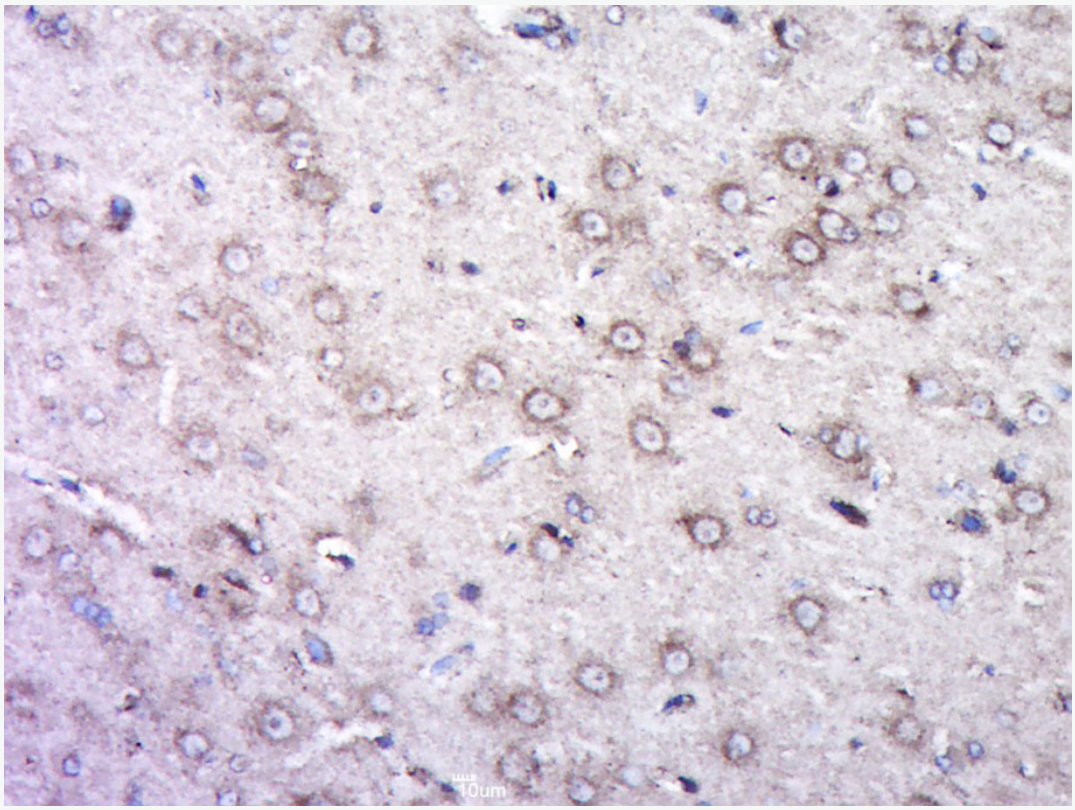
SwissProt: P49620 Rat

Unigene: 683449 Human

Unigene: 194986 Mouse

Unigene: 10544 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 (DGKG) Polyclonal Antibody, Unconjugated (SL14297R) at 1:500 overnight at 4°C, followed by a conjugated

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secondary (sp-0023) for 20 minutes and DAB staining.