

Recombinant Human DGKG Protein, GST-tagged

Cat. No. DGKG-2574H Lot. No. (See product label)

SPECIFICATION

Product Overview	Human DGKG full-length ORF (NP_001074213.1, 1 a.a. - 766 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	Wheat Germ
Description	<p>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]</p>
Molecular Mass	112.7 kDa
AA Sequence	MGEERWVSLTPEEFDQLQKYSEYSSKKIKDALTEFNEGGSLKQYDPHEPISYDVFKL FMRAYLEVLDLPQPLSTHLFLAFSQQPRHETSDHPTREGASNSEANSADTNIQNADNAT KADEACAPDTESNMAEKQAPAEDQVAATPLEPPVPRSSSSSESPVVYLKDVVCYLSL LETGRPQDKLEFMFRLYDSDENGLLDQAEMDCIVNQLHIAQYLEWDPTELRPILKE MLQGMDYDRDGFVSLQEWVHGGMTTIPLLVLGMDDSGSKGDGRHAWTMKHFKK

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

PTYCNFCHIMLMGVRKQGLCCTYCKYTVHERCVSRNIPGCVKTYSKAKRSGEVMQ
 HAWVEGNSSVKCDRCHKSIKCYQSVTARHCVWCRMTFHRKCELSTLCDGGELRD
 HILLPTSICPITRDRPGEKSDGCVSAKGELVMQYKIIPTPGTHPLLVLVNPKSGGRQG
 ERLNFFRDTPDFRVLACGGDGTVGWILDCIDKANFAKHPPVAVLPLGTGNDLARCLR
 WGGGYEGGSLTKILKDIEQSPLVMLDRWHLEVIPREEVENDQVPYSIMNNYFSIGV
 DASIAHRFHVMREKHPEKFNSRMKNKLWYFEFGTSETFAATCKKLHDHIELECDGV
 GVDLSNIFLEGIAILNIPSMYGGTNLWGENKKNRAVIRESRKGVTPKELKFCVQDLS
 DQLLEVVGLEGAMEMGQIYTGLKSAGRRLAQCASVTIRTNKLLPMQVDGEPWMQP
 CCTIKITHKNQAPMMMGPQKSSFFSLRRKSRSD

Applications
 Enzyme-linked Immunoabsorbent Assay
 Western Blot (Recombinant protein)
 Antibody Production
 Protein Array

Notes Best use within three months from the date of receipt of this protein.

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer 50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name DGKG diacylglycerol kinase, gamma 90kDa [Homo sapiens]

Official Symbol DGKG

Synonyms DGKG; diacylglycerol kinase, gamma 90kDa; DAGK3, diacylglycerol kinase, gamma (90kD); diacylglycerol kinase gamma; DAG kinase gamma; diglyceride kinase gamma; diacylglycerol kinase gamma; DAGK3; DGK-GAMMA; MGC104993; MGC133330;

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Gene ID 1608

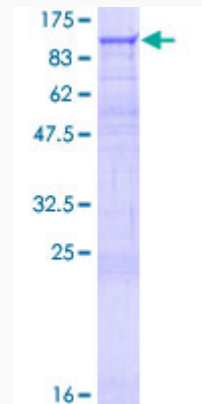
mRNA Refseq NM_001080744

Protein Refseq NP_001074213

MIM 601854

UniProt ID P49619

Quality Control
Testing:



12.5% SDS-PAGE Stained with Coomassie Blue.

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