

Recombinant Full Length Human DGKG Protein, GST-tagged

Cat. No. DGKG-2499HF **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	In Vitro Cell Free System
ProteinLength	766 amino acids
Description	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]
Molecular Mass	112.7 kDa
AA Sequence	MGEERWVSLTPEEFDQLQKYSEYSSKKIKDALTEFNEGGSLKQYDPHEPISYDVFKL FMRAYLEVLDLPQPLSTHLFLAFSQQPRHETSDHPTREGASNSEANSADTNIQNADNAT KADEACAPDTESNMAEKQAPAEDQVAATPLEPPVPRSSSSSESPVVYLKDVVCYLSL LETGRPQDKLEFMFRLYDSDENGLLDQAEMDCIVNQMLHIAQYLEWDPTELRPILKE

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MLQGMDYDRDGFVSLQEWVHGGMTTIPLLVLLGMDDSGSKGDGRHAWTMKHFCK
 PTYCNFCHIMLMGVRKQGLCCTYCKYTVHERCVSRNIPGCVKTYSKAKRSGEVMQ
 HAWVEGNSSVKCDRCHKSIKCYQSVTARHCVWCRMTFHRKCELSTLCDGGELRD
 HILLPTSICPITRDRPGEKSDGCVSAKGELVMQYKIIPTPGTHPLLVLVNPKSGGRQG
 ERLNFFRDTPDFRVLACGGDGTVGWILDCIDKANFAKHPPVAVLPLGTGNDLARCLR
 WGGGYEGGSLTKILKDIEQSPLVMLDRWHLEVIPREEVENDQVPYSIMNNYFSIGV
 DASIAHRFHVMREKHPEKFNSRMKNKLWYFEFGTSETFAATCKKLHDHIELECDGV
 GVDLSNIFLEGIAILNIPSMYGGTNLWGENKKNRAVIRESRKGVTDPKELKFCVQDLS
 DQLLEVVGLEGAMEMGQIYTGLKSAGRRLAQCASVTIRTNKLLPMQVDGEPWMQP
 CCTIKITHKNQAPMMMGPQKSSFFSLRRKSRSKD

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;

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	MGC133330;
Gene ID	1608
mRNA Refseq	NM_001080744
Protein Refseq	NP_001074213
MIM	601854
UniProt ID	P49619

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