

## Recombinant Human DGKA 293 Cell Lysate

**Cat. No.** DGKA-6960HCL    **Lot. No.** (See product label)

### SPECIFICATION

#### Product Overview

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>         | Antigen standard for diacylglycerol kinase, alpha 80kDa (DGKA), transcript variant 4 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.                                                                                    |
| <b>Components</b>          | This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol). |
| <b>Size</b>                | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Instruction</b> | Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.                                                                                                                                                                                                                                                                   |

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**Applications**

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

**GENE INFORMATION**
**Gene Name**

DGKA diacylglycerol kinase, alpha 80kDa [ Homo sapiens ]

**Official Symbol**

DGKA

**Synonyms**

DGKA; diacylglycerol kinase, alpha 80kDa; DAGK, DAGK1, diacylglycerol kinase, alpha (80kD); diacylglycerol kinase alpha; DGK alpha; DAG kinase alpha; diglyceride kinase alpha; 80 kDa diacylglycerol kinase; DAGK; DAGK1; DGK-alpha; MGC12821; MGC42356;

**Gene ID**

1606

**mRNA Refseq**

NM\_201554

**Protein Refseq**

NP\_963848

**MIM**

125855

**UniProt ID**

P23743

**Chromosome Location**

12q13.3

**Pathway**

Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem; Effects of PIP2 hydrolysis, organism-specific biosystem; G alpha (q) signalling events, organism-specific biosystem; GPCR downstream signaling,

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organism-specific biosystem; Glycerolipid metabolism, organism-specific biosystem;  
Glycerolipid metabolism, conserved biosystem; Glycerophospholipid metabolism,  
organism-specific biosystem;

**Function**

ATP binding; calcium ion binding; diacylglycerol kinase activity; nucleotide binding;  
phospholipid binding; transferase activity;

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