Recombinant Human DGUOK 293 Cell Lysate

Cat. No. DGUOK-6951HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for deoxyguanosine kinase (DGUOK), nuclear gene encoding mitochondrial protein, transcript variant 1 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.
Components	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).
Size	0.1 mg
Storage Instruction	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	DGUOK deoxyguanosine kinase [Homo sapiens]
Official Symbol	DGUOK
Synonyms	DGUOK; deoxyguanosine kinase; deoxyguanosine kinase, mitochondrial; dGK; MTDPS3;
Gene ID	1716
mRNA Refseq	NM_080916
Protein Refseq	NP_550438
MIM	601465
UniProt ID	Q16854
Chromosome Location	2p13
Pathway	Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of nucleotides, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, organism-specific biosystem; Purine metabolism, conserved biosystem; Purine salvage, organism-specific biosystem;

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Function	ATP binding; deoxyguanosine kinase activity; kinase activity; nucleoside kinase activity; nucleotide binding; phosphotransferase activity, alcohol group as acceptor; transferase activity;

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