

Recombinant Human GK 293 Cell Lysate

Cat. No. GK-5913HCL **Lot. No.** (See product label)

SPECIFICATION

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|----------------------------|---|
| Species | Human |
| Source | HEK293 |
| Description | Antigen standard for glycerol kinase (GK), transcript variant 2 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. |
| 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 |

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

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|----------------------------|---|
| Gene Name | GK glycerol kinase [Homo sapiens] |
| Official Symbol | GK |
| Synonyms | glycerol kinase; 4289; Ensembl:ENSG00000198814; glycerol kinase; glycerokinase; ATP:glycerol 3-phosphotransferase; 2.7.1.30; GK1; GKD |
| Gene ID | 2710 |
| mRNA Refseq | NM_000167.5 |
| Protein Refseq | NP_000158 |
| MIM | 300474 |
| UniProt ID | B4DH54 |
| Chromosome Location | Xp21.3 |
| Pathway | Fatty Acid Beta Oxidation, organism-specific biosystem; Fatty acid, triacylglycerol, and ketone body metabolism, organism-specific biosystem; Glycerolipid metabolism, organism-specific biosystem; Glycerolipid metabolism, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins, organism-specific biosystem; PPAR signaling pathway, organism-specific biosystem; |
| Function | ATP binding; glycerol kinase activity; glycerol kinase activity; protein binding; |

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