

Recombinant Human PHGDH 293 Cell Lysate

Cat. No. PHGDH-3223HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for phosphoglycerate dehydrogenase (PHGDH) 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

PHGDH phosphoglycerate dehydrogenase [Homo sapiens]

Official Symbol

PHGDH

Synonyms

PHGDH; phosphoglycerate dehydrogenase; D-3-phosphoglycerate dehydrogenase; PDG; PGDH; SERA; 3-phosphoglycerate dehydrogenase; PGD; PGAD; 3PGDH; 3-PGDH; MGC3017;

Gene ID

26227

mRNA Refseq

NM_006623

Protein Refseq

NP_006614

MIM

606879

UniProt ID

O43175

**Chromosome
Location**

1p12

Pathway

Amino acid synthesis and interconversion (transamination), organism-specific biosystem; Glycine, serine and threonine metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism

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of amino acids and derivatives, organism-specific biosystem; Serine biosynthesis, organism-specific biosystem;

Function

NAD binding; cofactor binding; electron carrier activity; oxidoreductase activity; phosphoglycerate dehydrogenase activity; phosphoglycerate dehydrogenase activity;

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