

Recombinant Human PGAM2 293 Cell Lysate

Cat. No. PGAM2-3263HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for phosphoglycerate mutase 2 (muscle) (PGAM2) 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

PGAM2 phosphoglycerate mutase 2 (muscle) [Homo sapiens]

Official Symbol

PGAM2

Synonyms

PGAM2; phosphoglycerate mutase 2 (muscle); phosphoglycerate mutase 2; PGAM M; BPG-dependent PGAM 2; phosphoglycerate mutase isozyme M; muscle-specific phosphoglycerate mutase; GSD10; PGAMM; PGAM-M; MGC88743;

Gene ID

5224

mRNA Refseq

NM_000290

Protein Refseq

NP_000281

MIM

612931

UniProt ID

P15259

**Chromosome
Location**

7p13-p12

Pathway

Gluconeogenesis, organism-specific biosystem; Gluconeogenesis, oxaloacetate =>fructose-6P, organism-specific biosystem; Gluconeogenesis, oxaloacetate => fructose-6P, conserved biosystem; Glucose metabolism, organism-specific biosystem; Glycine, serine and threonine metabolism, organism-specific biosystem;

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Function

2,3-bisphosphoglycerate-dependent phosphoglycerate mutase activity;
bisphosphoglycerate 2-phosphatase activity; bisphosphoglycerate mutase activity;
cofactor binding; hydrolase activity; isomerase activity; phosphoglycerate mutase
activity;

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