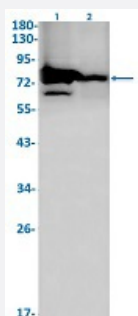


RecomAb™

GPD2 recombinant monoclonal antibody, clone R02-5B9

Catalog # RAB02240 Size 100 uL

Applications



Western Blot

Western Blot analysis of Lane 1: 3T3 and Lane 2: HeLa lysates with GPD2 recombinant monoclonal antibody, clone R02-5B9 (Cat # RAB02240).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human GPD2.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human GPD2.
Theoretical MW (kDa)	Calculated MW: 81 kD
Reactivity	Human, Mouse, Rat
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunoprecipitation(1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15 M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)

Storage Instruction

Store at -20 °C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Western Blot analysis of Lane 1: 3T3 and Lane 2: Hela lysates with GPD2 recombinant monoclonal antibody, clone R02-5B9 (Cat # RAB02240).

- Immunoprecipitation

Gene Info — GPD2

Entrez GeneID[2820](#)**Protein Accession#**[P43304](#)**Gene Name**

GPD2

Gene Alias

GDH2, GPDM, mGPDH

Gene Description

glycerol-3-phosphate dehydrogenase 2 (mitochondrial)

Omim ID[125853](#) [138430](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

Mitochondrial glycerophosphate dehydrogenase (EC 1.1.99.5), or GPD2, is located on the outer surface of the inner mitochondrial membrane and catalyzes the unidirectional conversion of glycerol-3-phosphate (G-3-P) to dihydroxyacetone phosphate (DHAP) with concomitant reduction of the enzyme-bound FAD. Together with a cytosolic NAD-linked GPD (GPD1; MIM 138420), GPD2 forms the glycerol phosphate shuttle, which uses the interconversion of G-3-P and DHAP to transfer reducing equivalents into mitochondria, resulting in the reoxidation of NADH formed during glycolysis.[supplied by OMIM]

Other Designations

mitochondrial glycerophosphate dehydrogenase

Pathway

- [Glycerophospholipid metabolism](#)

Disease

- [Atherosclerosis](#)
- [Diabetes Mellitus](#)