

#### 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
lsotype	lgG
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)

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#### **Product Information**

**Storage Instruction** 

Aliquot to avoid repeated freezing and thawing.

Store at -20 °C.

Note

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

## Applications

Western Blot

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• Immunoprecipitation

# Gene Info — GPD2

Entrez GenelD	2820
Protein Accession#	<u>P43304</u>
Gene Name	GPD2
Gene Alias	GDH2, GPDM, mGPDH
Gene Description	glycerol-3-phosphate dehydrogenase 2 (mitochondrial)
Omim ID	<u>125853 138430</u>
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 glycer ol-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 for ms the glycerol phosphate shuttle, which uses the interconversion of G-3-P and DHAP to transfer r educing equivalents into mitochondria, resulting in the reoxidation of NADH formed during glycoly sis.[supplied by OMIM
Other Designations	mitochondrial glycerophosphate dehydrogenase

## Pathway

<u>Glycerophospholipid metabolism</u>



#### Disease

- <u>Atherosclerosis</u>
- Diabetes Mellitus