

## **GPD2 Antibody (monoclonal) (M02)**

Mouse monoclonal antibody raised against a full length recombinant GPD2.

Catalog # AT2243a

### **Specification**

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#### **GPD2 Antibody (monoclonal) (M02) - Product Information**

Application	<b>WB, E</b>
Primary Accession	<a href="#">P43304</a>
Other Accession	<a href="#">BC019874</a>
Reactivity	<b>Human</b>
Host	<b>mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1 kappa</b>
Calculated MW	<b>80853</b>

#### **GPD2 Antibody (monoclonal) (M02) - Additional Information**

**Gene ID** 2820

#### **Other Names**

Glycerol-3-phosphate dehydrogenase, mitochondrial, GPD-M, GPDH-M, mtGPD, GPD2

#### **Target/Specificity**

GPD2 (AAH19874, 1 a.a. ~ 378 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

#### **Dilution**

WB~~1:500~1000

#### **Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

#### **Storage**

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

#### **Precautions**

GPD2 Antibody (monoclonal) (M02) is for research use only and not for use in diagnostic or therapeutic procedures.

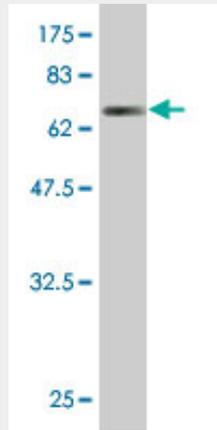
#### **GPD2 Antibody (monoclonal) (M02) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

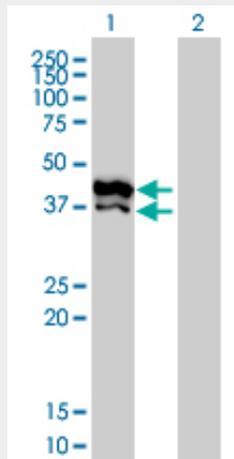
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)

- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**GPD2 Antibody (monoclonal) (M02) - Images**

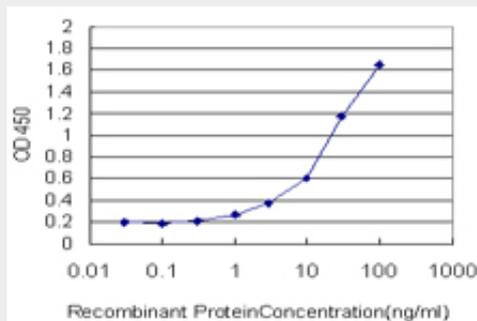


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (67.32 KDa) .



Western Blot analysis of GPD2 expression in transfected 293T cell line by GPD2 monoclonal antibody (M02), clone 2C11-1F4.

Lane 1: GPD2 transfected lysate(41 KDa).  
 Lane 2: Non-transfected lysate.



Detection limit for recombinant GST tagged GPD2 is approximately 1ng/ml as a capture antibody.

### **GPD2 Antibody (monoclonal) (M02) - Background**

The protein encoded by this gene localizes to the inner mitochondrial membrane and catalyzes the conversion of glycerol-3-phosphate to dihydroxyacetone phosphate, using FAD as a cofactor. Along with GDP1, the encoded protein constitutes the glycerol phosphate shuttle, which reoxidizes NADH formed during glycolysis. Two transcript variants encoding the same protein have been found for this gene.

### **GPD2 Antibody (monoclonal) (M02) - References**

A genome-wide association scan of RR and QT interval duration in 3 European genetically isolated populations: the EUROSPAN project. Marroni F, et al. *Circ Cardiovasc Genet*, 2009 Aug. PMID 20031603. Haploinsufficiency of the GPD2 gene in a patient with nonsyndromic mental retardation. Daoud H, et al. *Hum Genet*, 2009 Jan. PMID 19011903. Increased expression of mitochondrial glycerophosphate dehydrogenase and antioxidant enzymes in prostate cancer cell lines/cancer. Chowdhury SK, et al. *Free Radic Res*, 2007 Oct. PMID 17886033. Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. *Genome Res*, 2006 Jan. PMID 16344560. Transcriptome analysis of human gastric cancer. Oh JH, et al. *Mamm Genome*, 2005 Dec. PMID 16341674.