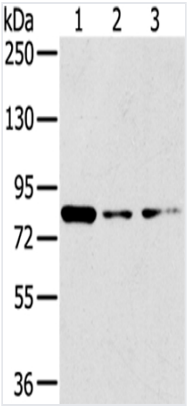
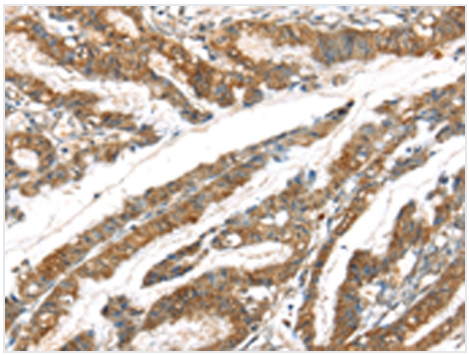
GPD2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

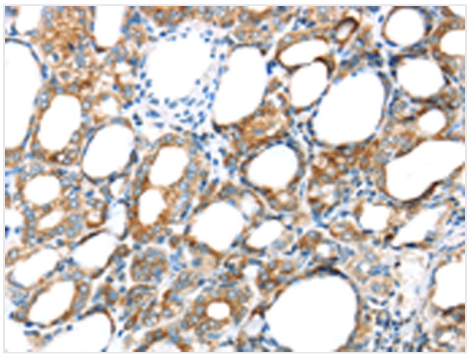
Product Name	GPD2, Polyclonal Antibody
Full Product Name	GPD2 Antibody
Product Gene Name	anti-GPD2 antibody
Product Synonym Names	GDH2; GPDM; mGPDH
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Rabbit IgG in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.
Purity/Purification	Antigen Affinity Purification
Concentration	1.4 mg/ml (lot specific)
Specificity	The antibody detects endogenous levels of total GPD2 protein.
Preparation and Storage	Store at -20 degree C
Molecular Weight	67,531 Da
OMIM	138430
3D Structure	ModBase 3D Structure for P43304
Immunogen	Synthetic peptide of human GPD2
Immunogen Type	Peptide
Product Categories/Family for anti-GPD2 antibody	Total protein Ab
Applications Tested/Suitable for anti-GPD2 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-GPD2 antibody	Western Blot: 1:500-1:2000
Related Product Information for anti-GPD2 antibody	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.
Other Notes	Small volumes of anti-GPD2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GPD2 purchase	MBS9416168 is an antibody targeting GPD2. Also known as GPD2 Antibody. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-GPD2 antibody
Gel: 6%SDS-PAGE Lysate: 40 ? g Lane 1-3: A172 cells, 231 cells, Hela cells, Primary antibody: 1/200 dilution Secondary antibody: Goat anti rabbit IgG at 1/8000 dilution Exposure time: 30 seconds



Immunohistochemistry (IHC) of anti-GPD2 antibody
Immunohistochemical analysis of paraffin-embedded Human esophagus cancer tissue using at dilution 1/20.



Immunohistochemistry (IHC) of anti-GPD2 antibody
Immunohistochemical analysis of paraffin-embedded Human thyroid cancer tissue using at dilution 1/20.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GPD2. It may not necessarily be applicable to this product.

NCBI GI #	285002233
NCBI GeneID	2820
NCBI Accession #	NP_000399.3
UniProt Primary Accession #	P43304
UniProt Secondary Accession #	Q59FR1; Q9HAP9; A8K4V0; B3KSA9
UniProt Related Accession #	P43304
GenBank Nucleotide #	NM_000408.4
NCBI Official Full Name	glycerol-3-phosphate dehydrogenase, mitochondrial
NCBI Official Synonym Full Names	glycerol-3-phosphate dehydrogenase 2
NCBI Official Symbol	GPD2
NCBI Official Synonym Symbols	GDH2; GPDM; mGPDH
UniProt Protein Name	Glycerol-3-phosphate dehydrogenase, mitochondrial
UniProt Synonym Protein Names	mtGPD
Protein Family	Glycerol-3-phosphate dehydrogenase
UniProt Gene Name	GPD2

UniProt Synonym Gene Names	GPD-M; GPDH-M
UniProt Entry Name	GPDM_HUMAN
NCBI Protein Information	glycerol-3-phosphate dehydrogenase, mitochondrial
UniProt Comments for GPD2	GPD2: 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.[provided by RefSeq, Jan 2010] Protein type: Calcium-binding; EC 1.1.5.3; Lipid Metabolism - glycerophospholipid; Mitochondrial; Oxidoreductase Chromosomal Location of Human Ortholog: 2q24.1 Cellular Component: mitochondrial inner membrane Molecular Function: glycerol-3-phosphate dehydrogenase activity Biological Process: cellular lipid metabolic process Disease: Diabetes Mellitus, Noninsulin-dependent
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