



Anti-GPD2 (full length) polyclonal antibody (DPAB-DC1412)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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.[provided by RefSeq, Jan 2010]
Immunogen	GPD2 (AAH19874, 1 a.a. ~ 378 a.a) full-length recombinant protein with GST tag. The sequence is MAFQKAVKGTLVGGGALATVLGLSQFAHYRRKQMNLAYVKAADCISEPVNREPPSREAQL LTLQNTSEFDILVIGGGATGSGCALDAVTRGLKTALVERDDFSSGTSSRSTKLIHGGVRY LQKAIMKLDIEQYRMVKEALHERANLLEIAPHLSAPLPIMLPVYKWWQLPYYWVGKLYD LVAGSNCLKSSYVLSKSRALHFPMQLQKDKLVGAIVYYDGGQHNDAARMNLAIALTAARYGA ATANYMEVVSLKKTDPTGTGVHVSGARCKDVLTGQEFDVRAKCVINATGPFTDSVRKMD DKDAAAICQPSAGVHIVMPGYSPESMGLDPATSDGRVIFFLPWQKMTIAGTTDPTDV THHIPSEEDINFILNEV
Source/Host	Mouse
Species Reactivity	Human
Conjugate	Unconjugated
Applications	WB (Recombinant protein), ELISA,
Size	50 µl
Buffer	50 % glycerol
Preservative	None

Storage

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

GENE INFORMATION

Gene Name	GPD2 glycerol-3-phosphate dehydrogenase 2 (mitochondrial) [Homo sapiens (human)]
Official Symbol	GPD2
Synonyms	GPD2; glycerol-3-phosphate dehydrogenase 2 (mitochondrial); GDH2; GPDM; mGPDH; glycerol-3-phosphate dehydrogenase, mitochondrial; GPD-M; mtGPD; GPDH-M; mitochondrial glycerophosphate dehydrogenase;
Entrez Gene ID	2820
Protein Refseq	NP_000399
UniProt ID	P43304
Chromosome Location	2q24.1
Pathway	CDP-diacylglycerol biosynthesis I; Fatty acid, triacylglycerol, and ketone body metabolism; Metabolism; glycerol-3-phosphate shuttle
Function	calcium ion binding; glycerol-3-phosphate dehydrogenase activity; sn-glycerol-3-phosphate:ubiquinone-8 oxidoreductase activity;