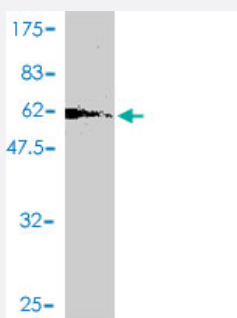


GPD2 polyclonal antibody (A01)

Catalog # H00002820-A01

Size 50 uL

Applications



Western Blot detection against Immunogen (67.69 KDa) .

Specification

Product Description	Mouse polyclonal antibody raised against a full-length recombinant GPD2.
Immunogen	GPD2 (AAH19874, 1 a.a. ~ 378 a.a) full-length recombinant protein with GST tag.
Sequence	MAFQKAVKGTLVGGGALATVLGLSQFAHYRRKQMNLAYVKAADCISEPVNREPPSREAQLLTLQ NTSEFDILVIGGGATGSGCALDAVTRGLKTALVERDDFSSGTSSRSTKLIHGGVRYLQKAIMKLDIE QYRMVKEALHERANLLEIAPHLSAPLPIMLPVYKWWQLPYWVGKLYDLVAGSNCLKSSYYLSKS RALEHFPMLQKDKLVGAIVYDGGHNDARMNLAIALTAARYGAATANYMEVVSLKKTDPTGKV HVSGARCKDVL TGQEFDVRAKCVINATGPFTDSVRKMDDKDAACQPSAGVHIMPGYYSPES MGLLDPATSDGRVIFFLPWQKMTIAGTTDPTDVTTHPIPSEEDINFILNEV
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (93); Rat (92)
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (67.69 KDa) .
Storage Buffer	50 % glycerol
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — GPD2

Entrez GeneID [2820](#)

GeneBank Accession# [BC019874](#)

Protein Accession# [AAH19874](#)

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

Publication Reference

- [Examination of bioenergetic function in the inner mitochondrial membrane peptidase 2-like \(Immp2l\) mutant mice.](#)

Bharadwaj MS, Zhou Y, Molina AJ, Criswell T, Lu B.

Redox Biology 2014 Aug; 2:1008.

Application: WB-Ti, Mouse, Brown adipose

- [A Mutation in the Inner Mitochondrial Membrane Peptidase 2-Like Gene \(Immp2l\) Affects Mitochondrial Function and Impairs Fertility in Mice.](#)

Lu B, Poirier C, Gaspar T, Gratzke C, Harrison W, Busija D, Matzuk M, Andersson KE, Overbeek PA, Bishop CE.

Biology of Reproduction 2007 Dec; 78(4):601.

Application: WB, Mouse, Mitochondrial protein from brown fat

Pathway

- [Glycerophospholipid metabolism](#)

Disease

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