DNAxPAb | Hard-to-Find Antibody

# GPD2 DNAxPab

Catalog # H00002820-W01P Size 200 ug

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against a full-length human GPD2 DNA using DNAx™ Immune tec hnology. |
| **Technology** | DNAx™ Immune |
| **Immunogen** | Full-length human DNA |
| **Sequence** | MAFQKAVKGTLVGGGALATVLGLSQFAHYRRKQMNLAYVKAADCISEPVNREPPSREAQLLTLQ NTSEFDILVIGGGATGSGCALDAVTRGLKTALVERDDFSSGTSSRSTKLIHGGVRYLQKAIMKLDIE QYRMVKEALHERANLLEIAPHLSAPLPIMLPVYKWWQLPYYWVGIKLYDLVAGSNCLKSSYVLSKS RALEHFPMLQKDKLVGAIVYYDGQHNDARMNLAIALTAARYGAATANYMEVVSLLKKTDPQTGKV HVSGARCKDVLTGQEFDVRAKCVINATGPFTDSVRKMDDKDAAAICQPSAGVHIVMPGYYSPES MGLLDPATSDGRVIFFLPWQKMTIAGTTDTPTDVTHHPIPSEEDINFILNEV |
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Purification** | Protein A |
| **Quality Control Testing** | Antibody reactive against mammalian transfected lysate. |
| **Storage Buffer** | In 1x PBS, pH 7.4 |
| **Storage Instruction** | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

## Applications

- Western Blot (Transfected lysate)

  Protocol Download

- Immunofluorescence (Transfected cell)

- Flow Cytometry (Transfected cell)

## 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 |

## Pathway

- Glycerophospholipid metabolism

## Disease

- Atherosclerosis
- Diabetes Mellitus