

Product Name: KD-Validated GPD2 Mouse Monoclonal Antibody**Catalog #: KVA00272**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:400-1:2,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 80.9kDa

Antigen Information

Gene Name	GPD2 GPD2; Glycerol-3-Phosphate Dehydrogenase 2; Glycerol-3-Phosphate Dehydrogenase 2 (Mitochondrial); Glycerol-3-Phosphate Dehydrogenase, Mitochondrial; EC 1.1.5.3; GPDH-M;
Alternative Names	GPD-M; MtGPD; MGDH; Mitochondrial Glycerophosphate Dehydrogenase Gene; Mitochondrial Glycerophosphate Dehydrogenase; Mitochondrial Glycerophosphate Dehydrogenase; Testicular Tissue Protein Li 76; MGDH; GDH2; GPDH
Gene ID	2820.0
SwissProt ID	P43304
Immunogen	Recombinant protein of human GPD2

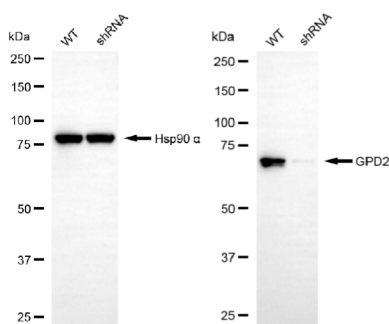
Background

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.[provided by RefSeq, Jan 2010]

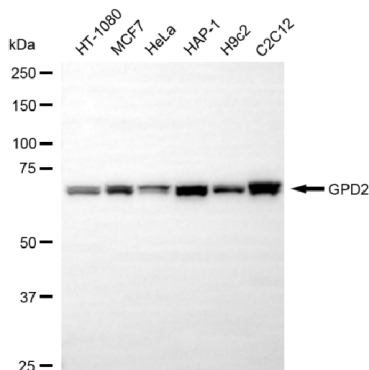
Research Area

Tags & Cell Markers, Signal Transduction, Cancer, Metabolism

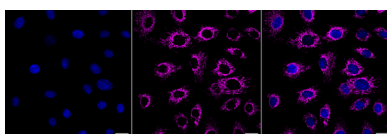
Image Data



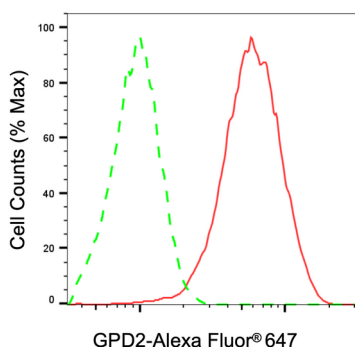
Western blotting analysis using GPD2 antibody (KVA00272). GPD2 expression in wild-type (WT) and GPD2 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with GPD2 antibody (KVA00272, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Western blotting analysis using GPD2 antibody (KVA00272). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with GPD2 antibody (KVA00272, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



Immunocytochemical staining of C2C12 cells with GPD2 antibody (KVA00272, 1:1,000). Nuclei were stained blue with DAPI; GPD2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of GPD2 expression in C2C12 cells using GPD2 antibody (KVA00272, 1:2,000). Green, isotype control; red, GPD2.