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GPD2 Rabbit pAb

Catalog # AP98924

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P43304
Other Accession	P43304
Reactivity	Mouse
Predicted	Rat, Pig, Human, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	80853
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human GPD2
Epitope Specificity	165-270/727
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the FAD-dependent glycerol-3-phosphate dehydrogenase family. Contains 2 EF-hand domains.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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].

Additional Information

Gene ID	2820
Other Names	GDH2; GPDM; mGDH; mGPDH; GPDH; Gdm1; Gpd-m; Gpdh-m; TISP38; mtGPDH; GPDM_HUMAN; GPD2; mitohondrial glycerophosphate dehydrogenase gene (mGDH); mtGPD; 1.1.5.3; GPDM_MOUSE; Protein TISP38; GPDM_RAT; glycerol-3-phosphate dehydrogenase 2; glycerol-3-phosphate dehydrogenase 2 (mitochondrial)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	GPD2 (HGNC:4456)
Function	Calcium-responsive mitochondrial glycerol-3-phosphate dehydrogenase which seems to be a key component of the pancreatic beta- cell glucose-sensing device.
Cellular Location	Mitochondrion.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.