10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

GPD2 Rabbit mAb

Catalog # AP75515

Product Information

Application	WB, FC, IP
Primary Accession	P43304
Reactivity	Rat, Human, Mouse
Host	Rabbit
Clonality	Monoclonal Antibody
Isotype	IgG
Conjugate	Unconjugated
Purification	Affinity Purified
Calculated MW	80853

Additional Information

Gene ID	2820
Other Names	GPD2
Dilution	WB~~1:500-1:1000 FC~~1:10~50 IP~~1:20
Format	Liquid in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

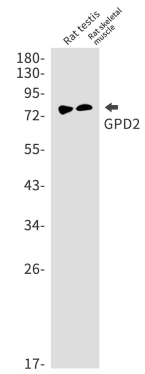
Protein Information

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.

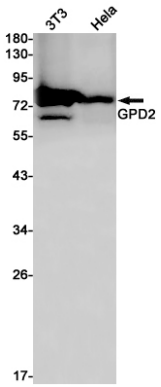
Background

GPD2(Glycerol-3-phosphate dehydrogenase, mitochondrial) belongs to the FAD-dependent glycerol-3-phosphate dehydrogenase family. It is phosphorylated only in capacitated hamster spermatozoa and is noncanonically localized in the acrosome and principal piece in human, mouse, rat, and hamster spermatozoa, though in somatic cells it is localized in the mitochondria. This noncanonical localization may imply a role of GPD2 in acrosome reaction and hyperactivation(PMID:19333995).

Images



Western blot analysis of GPD2 in rat testis, rat skeletal muscle lysates using GPD2 antibody.



Western blot analysis of GPD2 in K562, Hela lysates using GPD2 antibody.

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