

DMGDH Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP18005B

Specification

DMGDH Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	O9UI17
Other Accession	NP_037523.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	96811
Antigen Region	836-864

DMGDH Antibody (C-term) - Additional Information

Gene ID 29958

Other Names

Dimethylglycine dehydrogenase, mitochondrial, ME2GLYDH, DMGDH

Target/Specificity

This DMGDH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 836-864 amino acids from the C-terminal region of human DMGDH.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

DMGDH Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

DMGDH Antibody (C-term) - Protein Information

Name DMGDH

Function Catalyzes the demethylation of N,N-dimethylglycine to sarcosine. Also has activity with sarcosine in vitro.

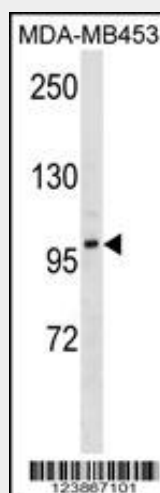
Cellular Location
Mitochondrion.

DMGDH Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

DMGDH Antibody (C-term) - Images



DMGDH Antibody (C-term) (Cat. #AP18005b) western blot analysis in MDA-MB453 cell line lysates (35ug/lane). This demonstrates the DMGDH antibody detected the DMGDH protein (arrow).

DMGDH Antibody (C-term) - Background

This gene encodes an enzyme involved in the catabolism of choline, catalyzing the oxidative demethylation of dimethylglycine to form sarcosine. The enzyme is found as a monomer in the mitochondrial matrix, and uses flavin adenine dinucleotide and folate as cofactors. Mutation in this gene causes dimethylglycine dehydrogenase deficiency, characterized by a fishlike body odor, chronic muscle fatigue, and elevated levels of the muscle form of creatine kinase in serum.

DMGDH Antibody (C-term) - References

Mostowska, A., et al. *Eur. J. Oral Sci.* 118(4):325-332(2010)
Bailey, S.D., et al. *Diabetes Care* (2010) In press :
Jugessur, A., et al. *PLoS ONE* 5 (7), E11493 (2010) :
Talmud, P.J., et al. *Am. J. Hum. Genet.* 85(5):628-642(2009)

Boyles, A.L., et al. Genet. Epidemiol. 33(3):247-255(2009)