

Anti-DMGDH Antibody

Catalog # AP53341

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q9UI17
Reactivity	Human, Mouse, Rat, Mk
Host	Rabbit
Clonality	Polyclonal
Calculated MW	96811

Additional Information

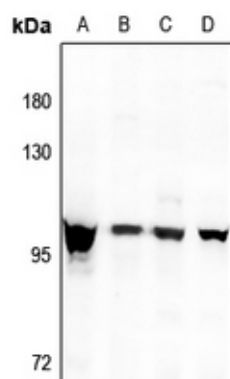
Gene ID	29958
Other Names	Dimethylglycine dehydrogenase mitochondrial; ME2GLYDH
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human DMGDH. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

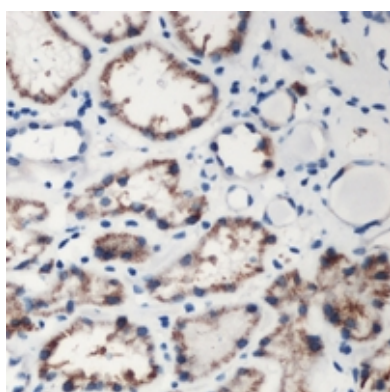
Name	DMGDH
Function	Catalyzes the demethylation of N,N-dimethylglycine to sarcosine. Also has activity with sarcosine in vitro.
Cellular Location	Mitochondrion.

References

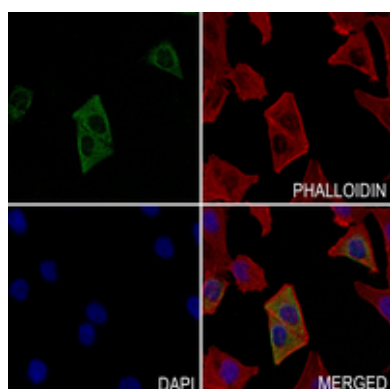
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Ota T.,et al.Nat. Genet. 36:40-45(2004).
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Western blot analysis of DMGDH expression in CT26 (A), H9C2 (B), LO2 (C), MCF7 (D) whole cell lysates. (Predicted band size: 96 kD; Observed band size: 97 kD)



Immunohistochemical analysis of DMGDH staining in human kidney formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of DMGDH staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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