
Product Name: DMGDH Rabbit Polyclonal Antibody**Catalog #: APRab10036**

For research use only.

Summary

Description	Rabbit polyclonal Antibody
Host	Rabbit
Application	WB,IHC,ICC/IF,ELISA
Reactivity	Human,Rat,Mouse
Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Concentration	1mg/ml
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:50-1:200,ELISA 1:10000-1:20000
Molecular Weight	97kDa

Antigen Information

Gene Name	DMGDH
Alternative Names	DMGDH; Dimethylglycine dehydrogenase; mitochondrial; ME2GLYDH
Gene ID	29958.0
SwissProt ID	Q9UI17
Immunogen	The antiserum was produced against synthesized peptide derived from human DMGDH. AA range:817-866

Background

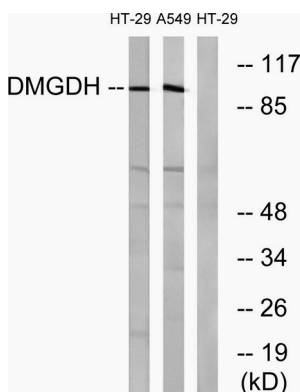
This gene encodes an enzyme involved in the catabolism of choline, catalyzing the oxidative demethylation of dimethylglycine

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. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jul 2013],catalytic activity:N,N-dimethylglycine + acceptor + H(2)O = sarcosine + formaldehyde + reduced acceptor.,cofactor:Binds 1 FAD covalently per monomer.,disease:Defects in DMGDH are the cause of DMGDH deficiency (DMGDHD) [MIM:605850]. DMGDHD is a disorder characterized by fish odor, muscle fatigue with increased serum creatine kinase. Biochemically it is characterized by an increase of N,N-dimethylglycine (DMG) in serum and urine.,pathway:Amine and polyamine degradation; betaine degradation; sarcosine from betaine: step 2/2.,similarity:Belongs to the gcvT family.,subunit:Monomer.,

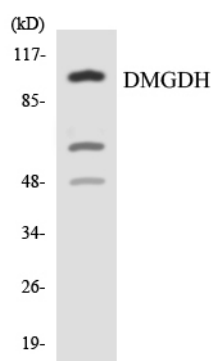
Research Area

Glycine; serine and threonine metabolism;

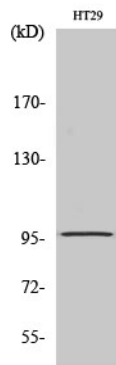
Image Data



Western blot analysis of lysates from HT-29 and A549 cells, using DMGDH Antibody. The lane on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HeLa cells using DMGDH antibody.



Western Blot analysis of various cells using DMGDH Polyclonal Antibody