Product Name: DMGDH Rabbit Polyclonal Antibody
Catalog #: APRab10036

Summary

Production Name	DMGDH Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,ELISA
Reactivity	Human,Rat,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

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

Application

Dilution Ratio	WB 1:500 - 1:2000. ELISA: 1:20000..
Molecular Weight	97kD

Background

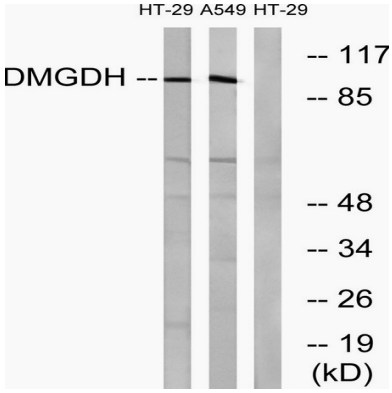
Product Name: DMGDH Rabbit Polyclonal Antibody
Catalog #: APRab10036

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.,

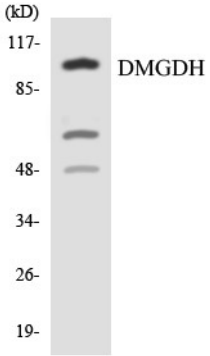
Research Area

Glycine; serine and threonine metabolism;

Image Data

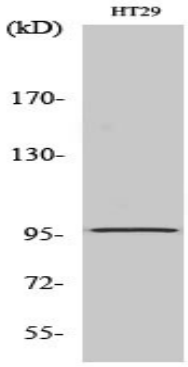


Western blot analysis of lysates from HT-29 and A549 cells, using DMGDH Antibody. The lane on the right is blocked with the synthesized peptide.



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

Product Name: DMGDH Rabbit Polyclonal Antibody
Catalog #: APRab10036



Western Blot analysis of various cells using DMGDH Polyclonal Antibody

Note

For research use only.