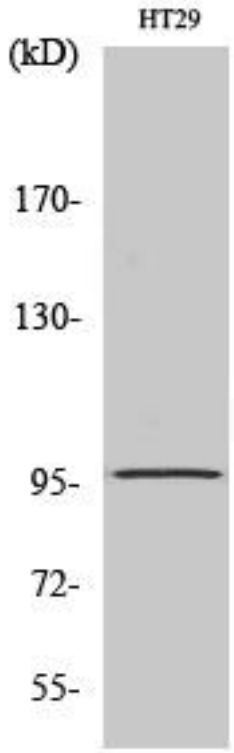
DMGDH Monoclonal Antibody

Catalog No	YP-mAb-02623
Isotype	IgG
Reactivity	Human;Rat;Mouse;
Applications	WB
Gene Name	DMGDH
Protein Name	Dimethylglycine dehydrogenase mitochondrial
Immunogen	The antiserum was produced against synthesized peptide derived from human DMGDH. AA range:817-866
Specificity	DMGDH Monoclonal Antibody detects endogenous levels of DMGDH protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	DMGDH; Dimethylglycine dehydrogenase; mitochondrial; ME2GLYDH
Observed Band	97kD
Cell Pathway	Mitochondrion.
Tissue Specificity	Kidney,Trachea,
Function	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.,
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using DMGDH Monoclonal Antibody