

KD-Validated Anti-Methylmalonyl-CoA mutase Rabbit Monoclonal Antibody

Rabbit monoclonal antibody Catalog # AGI1453

Specification

KD-Validated Anti-Methylmalonyl-CoA mutase Rabbit Monoclonal Antibody - Product Information

Application WB, ICC Primary Accession P22033

Reactivity Rat, Human, Mouse

Clonality Monoclonal Isotype Rabbit IgG

Calculated MW Predicted, 83 kDa, observed, 74 kDa KDa

Gene Name MMUT

Aliases MMUT; Methylmalonyl-CoA Mutase; MCM;

MUT; Methylmalonyl-CoA Mutase,

Mitochondrial; Methylmalonyl Coenzyme A Mutase; Methylmalonyl-CoA Isomerase; EC

5.4.99.2; Methylmalonyl-CoA Mutase

Variant C.613 615delGAA;

Methylmalonyl-CoA Mutase Variant C.1495G>A; Methylmalonyl-CoA Mutase Variant C.2011A>G; Methylmalonyl-CoA

Mutase Variant C.2150G>T;

Methylmalonyl-CoA Mutase Variant C.322C>T; Methylmalonyl-CoA Mutase Variant C.636G>A; Methylmalonyl-CoA

Mutase Variant C.643G>A;

Methylmalonyl-CoA Mutase C.*192delA; Methylmalonyl-CoA Mutase C.*51C>G; Mutant Methylmalonyl CoA Mutase

Immunogen A synthesized peptide derived from human

MUTA

KD-Validated Anti-Methylmalonyl-CoA mutase Rabbit Monoclonal Antibody - Additional Information

Gene ID 4594

Other Names

Methylmalonyl-CoA mutase, mitochondrial, MCM, 5.4.99.2, Methylmalonyl-CoA isomerase, MMUT (HGNC:7526)

KD-Validated Anti-Methylmalonyl-CoA mutase Rabbit Monoclonal Antibody - Protein Information

Name MMUT (HGNC:7526)



Function

Catalyzes the reversible isomerization of methylmalonyl-CoA (MMCoA) (generated from branched-chain amino acid metabolism and degradation of dietary odd chain fatty acids and cholesterol) to succinyl-CoA (3-carboxypropionyl-CoA), a key intermediate of the tricarboxylic acid cycle.

Cellular Location

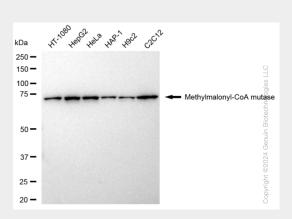
Mitochondrion matrix. Mitochondrion. Cytoplasm

KD-Validated Anti-Methylmalonyl-CoA mutase Rabbit Monoclonal Antibody - Protocols

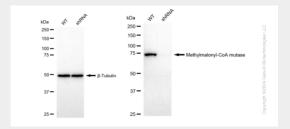
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

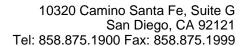
KD-Validated Anti-Methylmalonyl-CoA mutase Rabbit Monoclonal Antibody - Images



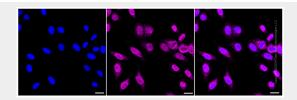
Western blotting analysis using anti-Methylmalonyl-CoA mutase antibody (Cat#AGI1453). Total cell lysates (30 μ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Methylmalonyl-CoA mutase antibody (Cat#AGI1453, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Methylmalonyl-CoA mutase antibody (Cat#AGI1453). Methylmalonyl-CoA mutase expression in wild type (WT) and Methylmalonyl-CoA mutase shRNA knockdown (KD) HeLa cells with 30 μg of total cell lysates. β -Tubulin serves as a loading control. The blot was incubated with anti-Methylmalonyl-CoA mutase antibody (Cat#AGI1453, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.







Immunocytochemical staining of HepG2 cells with Methylmalonyl-CoA mutase antibody (Cat#AGI1453, 1:1,000). Nuclei were stained blue with DAPI; Methylmalonyl-CoA mutase was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar: 20 μ m.