

**KD-Validated Anti-Methylmalonyl-CoA mutase Rabbit Monoclonal Antibody**  
**Rabbit monoclonal antibody**  
**Catalog # AGI1454****Specification****KD-Validated Anti-Methylmalonyl-CoA mutase Rabbit Monoclonal Antibody - Product Information**

Application	WB, FC, ICC
Primary Accession	<a href="#">P22033</a>
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Calculated MW	Predicted, 83 kDa, observed, 78 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 A synthesized peptide derived from human MMUT
Immunogen	

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

Gene ID	4594
<b>Other Names</b>	
Methylmalonyl-CoA mutase, mitochondrial, MCM, 5.4.99.2, Methylmalonyl-CoA isomerase, MMUT ( <a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=7526" target="_blank">http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=7526</a> )	
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

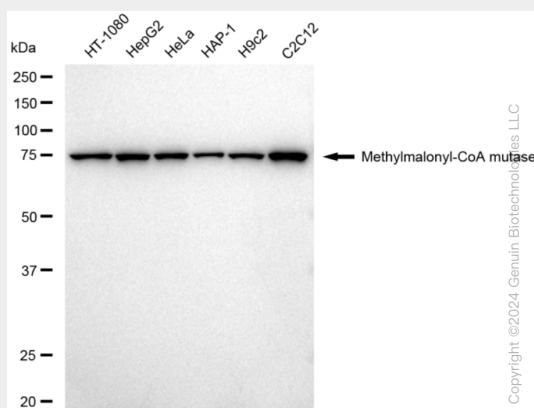
Mitochondrion matrix. Mitochondrion. Cytoplasm

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

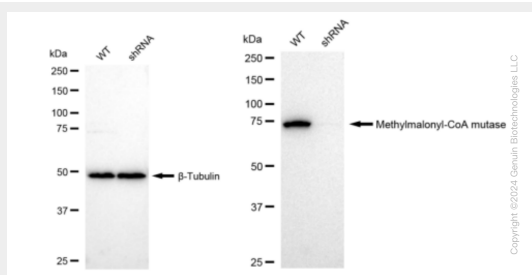
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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

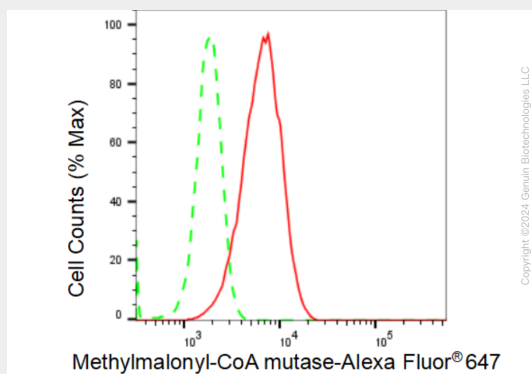


Western blotting analysis using anti-Methylmalonyl-CoA mutase antibody (Cat#AGI1454). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Methylmalonyl-CoA mutase antibody (Cat#AGI1454, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

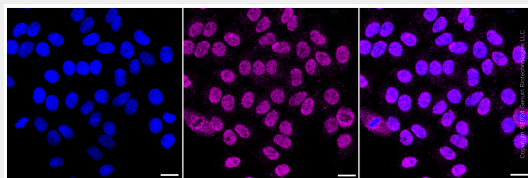


Western blotting analysis using anti-Methylmalonyl-CoA mutase antibody (Cat#AGI1454). Methylmalonyl-CoA mutase expression in wild type (WT) and Methylmalonyl-CoA mutase shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control.

The blot was incubated with anti-Methylmalonyl-CoA mutase antibody (Cat#AGI1454, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of Methylmalonyl-CoA mutase expression in HepG2 cells using Methylmalonyl-CoA mutase antibody (Cat#AGI1454, 1:2,000). Green, isotype control; red, Methylmalonyl-CoA mutase.



Immunocytochemical staining of HepG2 cells with Methylmalonyl-CoA mutase antibody (Cat#AGI1454, 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: Very Low. Scale bar: 20 µm.