10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# 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 (<a href="http://www.genenames.org/cgi-bin/gene_symbol_report?hgnc_id=7526" target="_blank">HGNC:7526</a>)

### 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.

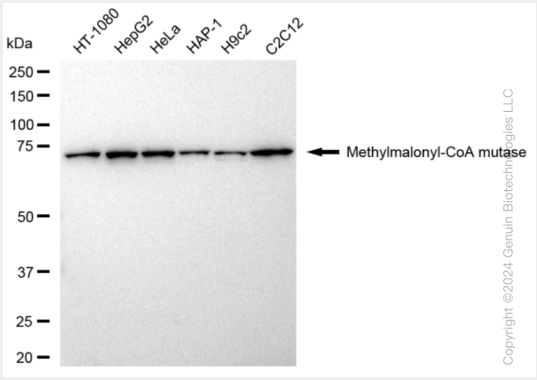
**Cellular Location**
Mitochondrion matrix. Mitochondrion. Cytoplasm

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

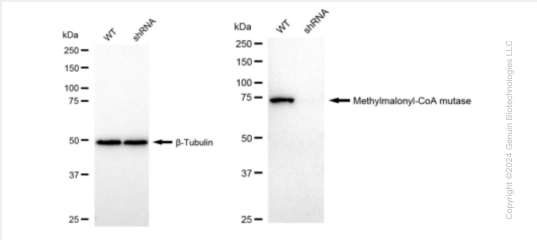
Provided below are standard protocols that you may find useful for product applications.

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

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

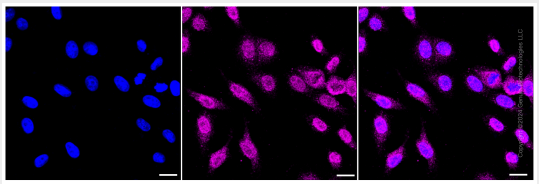



Western blotting analysis using anti-Methylmalonyl-CoA mutase antibody (Cat#AGI1453). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Methylmalonyl-CoA mutase antibody (Cat#AGI1453, 1:5,000) and HRP-conjugated goat anti-rabbit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

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



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 µm.