Datasheet for ABIN7603112

# anti-MUT antibody (N-Term)

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## Overview

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| Quantity: | 100 µg |
| Target: | MUT |
| Binding Specificity: | N-Term |
| Reactivity: | Mouse, Human, Rat |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This MUT antibody is un-conjugated |
| Application: | Western Blotting (WB), Immunohistochemistry (IHC) |

## Product Details

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| Purpose: | Anti-Methylmalonyl Coenzyme A mutase Antibody Picoband® (monoclonal, 2D6) |
| Immunogen: | A synthetic peptide corresponding to a sequence at the N-terminus of human MUT, different from the related mouse sequence by one amino acid. |
| Clone: | 2D6 |
| Isotype: | IgG2b |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins. |
| Characteristics: | Anti-Methylmalonyl Coenzyme A mutase Antibody Picoband® (monoclonal, 2D6) (ABIN7603112). Tested in IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |

## Product Details

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| Purification: | Immunogen affinity purified. |

## Target Details

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| Target: | MUT |
| Alternative Name: | MUT (MUT Products) |
| Background: | Synonyms: MCM, Mut<br>Tissue Specificity: B-cells.<br>Background: Methylmalonyl-CoA mutase (MUT) is a mitochondrial enzyme that catalyzes the isomerization of methylmalonyl-CoA to succinyl-CoA. This gene is mapped to 6p12.3. MUT requires a vitamin B12-derived prosthetic group, adenosylcobalamin (commonly referred to as AdoCbl), to function. And the product of this enzyme, succinyl-CoA, is a key molecule of the TCA cycle. |
| Molecular Weight: | 83 kDa |
| Gene ID: | 4594 |
| UniProt: | P22033 |
| Pathways: | Monocarboxylic Acid Catabolic Process |

## Application Details

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| Application Notes: | Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat<br>Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Rat<br>1. Adjalla, C. E., Hosack, A. R., Gilfix, B. M., Lamothe, E., Sun, S., Chan, A., Evans, S., Matiaszuk, N. V., Rosenblatt, D. S. Seven novel mutations in mut methylmalonic aciduria. Hum. Mutat. 11: 270-274, 1998. 2. Berger, I., Shaag, A., Anikster, Y., Baumgartner, E. R., Bar-Meir, M., Joseph, A., Elpeleg, O. N. Mutation analysis of the MCM gene in Israeli patients with mut(0) disease. Molec. Genet. Metab. 73: 107-110, 2001. 3. Cavicchi, C., Donati, M. A., Funghini, S., la Marca, G., Malvagia, S., Ciani, F., Poggi, G. M., Pasquini, E., Zammarchi, E., Morrone, A. Genetic and biochemical approach to early prenatal diagnosis in a family with mut methylmalonic aciduria. Clin. Genet. 69: 72-76, 2006. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |

## Handling

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| Reconstitution: | Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |
| Concentration: | 500 µg/mL |
| Buffer: | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg $Na_2HPO_4$, 0.05 mg $NaN_3$. |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles. |