

Datasheet for ABIN7599486  
**anti-ME1 antibody (AA 1-572)**



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## Overview

|                      |                                                                                  |
|----------------------|----------------------------------------------------------------------------------|
| Quantity:            | 100 µg                                                                           |
| Target:              | ME1                                                                              |
| Binding Specificity: | AA 1-572                                                                         |
| Reactivity:          | Human, Mouse, Rat                                                                |
| Host:                | Rabbit                                                                           |
| Clonality:           | Polyclonal                                                                       |
| Conjugate:           | This ME1 antibody is un-conjugated                                               |
| Application:         | Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC) |

## Product Details

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| Purpose:                    | Anti-ME1 Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                                          |
| Immunogen:                  | E.coli-derived human ME1 recombinant protein (Position: M1-Q572).                                                                                                                                                                                                                                                                                                                                                    |
| Isotype:                    | IgG                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins.                                                                                                                                                                                                                                                                                                                                                                             |
| Characteristics:            | Anti-ME1 Antibody Picoband® (ABIN7599486). Tested in ELISA, IF, ICC, 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. |
| Purification:               | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                                         |

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
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| Target:           | ME1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Alternative Name: | ME1 ( <a href="#">ME1 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Background:       | <p>Synonyms: High affinity copper uptake protein 1, Copper transporter 1, hCTR1, Solute carrier family 31 member 1, SLC31A1, COPT1, CTR1</p> <p>Tissue Specificity: Found in the synovial fluid of patients with rheumatoid arthritis. .</p> <p>Background: NADP-dependent malic enzyme is a protein that in humans is encoded by the ME1 gene. This gene encodes a cytosolic, NADP-dependent enzyme that generates NADPH for fatty acid biosynthesis. The activity of this enzyme, the reversible oxidative decarboxylation of malate, links the glycolytic and citric acid cycles. The regulation of expression for this gene is complex. Increased expression can result from elevated levels of thyroid hormones or by higher proportions of carbohydrates in the diet.</p> |
| Molecular Weight: | 64 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Gene ID:          | 4199                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| UniProt:          | <a href="#">P48163</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Pathways:         | <a href="#">Regulation of Lipid Metabolism by PPARalpha</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## Application Details

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| Application Notes: | <p>Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat</p> <p>Immunocytochemistry/Immunofluorescence, 5 µg/mL, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>1. Chen, T.-R., McMorris, F. A., Creagan, R., Ricciuti, F. C., Tischfield, J., Ruddle, F. H. Assignment of the genes for malate oxidoreductase decarboxylating to chromosome 6 and peptidase B and lactate dehydrogenase B to chromosome 12 in man. Am. J. Hum. Genet. 25: 200-207, 1973. 2. Cohen, P. T. W., Omenn, G. S. Genetic variation of the cytoplasmic and mitochondrial malic enzymes in the monkey: Macaca nemestrina. Biochem. Genet. 7: 289-301, 1972. 3. Gimelbrant, A., Hutchinson, J. N., Thompson, B. R., Chess, A. Widespread monoallelic expression on human autosomes. Science 318: 1136-1140, 2007.</p> |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

## Handling

|                 |                                                                           |
|-----------------|---------------------------------------------------------------------------|
| Format:         | Lyophilized                                                               |
| Reconstitution: | Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |

## Handling

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|                  |                                                                                                                                                                                                      |
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| Concentration:   | 500 µg/mL                                                                                                                                                                                            |
| Buffer:          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                            |
| Storage:         | 4 °C, -20 °C                                                                                                                                                                                         |
| Storage Comment: | At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing. |