

Datasheet for ABIN6991979  
**anti-ME1 antibody (N-Term)**



[Go to Product page](#)

## Overview

|                      |                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------|
| Quantity:            | 0.1 mg                                                                                    |
| Target:              | ME1                                                                                       |
| Binding Specificity: | N-Term                                                                                    |
| Reactivity:          | Human, Mouse, Rat                                                                         |
| Host:                | Rabbit                                                                                    |
| Clonality:           | Polyclonal                                                                                |
| Conjugate:           | This ME1 antibody is un-conjugated                                                        |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

## Product Details

|               |                                                                                                                                                                |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:    | ME1 antibody was raised against a 16 amino acid peptide near the amino terminus of human ME1. The immunogen is located within the first 50 amino acids of ME1. |
| Isotype:      | IgG                                                                                                                                                            |
| Specificity:  | ME1 antibody is human, mouse and rat reactive. ME1 antibody is predicted not to cross-react with ME2.                                                          |
| Purification: | ME1 antibody is affinity chromatography purified via peptide column.                                                                                           |

## Target Details

|                   |                                      |
|-------------------|--------------------------------------|
| Target:           | ME1                                  |
| Alternative Name: | ME1 ( <a href="#">ME1 Products</a> ) |

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Background:       | ME1, also known as NADP-ME, MES or HUMNDME, may play an important role as a housekeeping protein within the cell (1). ME1 is a 572 amino acid cytoplasmic protein that belongs to the malic enzyme family (2). It is expressed ubiquitously with highest expression in liver and white adipose tissue. ME1 functions as an NADP-dependent enzyme that generates NADPH for fatty acid biosynthesis (3). The activity of this enzyme, the reversible oxidative decarboxylation of malate, links the glycolytic and citric acid cycles (3,4). ME1 is regulated by both thyroid hormone levels and the amount of carbohydrates in the diet (5). |
| Molecular Weight: | Predicted: 63 kDa<br><br>Observed: 63 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene ID:          | 4199                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| NCBI Accession:   | <a href="#">NP_002386</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| UniProt:          | <a href="#">P48163</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Pathways:         | <a href="#">Regulation of Lipid Metabolism by PPARalpha</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## Application Details

|                    |                                                                                                                                                                                                                                                                                                     |
|--------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | ME1 antibody can be used for detection of ME1 by Western blot at 1 - 2 µg/mL. Antibody can also be used for Immunohistochemistry at 5 µg/mL.<br><br>Antibody validated: Western Blot in human samples and Immunohistochemistry in mouse samples. All other applications and species not yet tested. |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                               |

## Handling

|                    |                                                                                                                        |
|--------------------|------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                 |
| Concentration:     | 1 mg/mL                                                                                                                |
| Buffer:            | ME1 Antibody is supplied in PBS containing 0.02 % sodium azide.                                                        |
| 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:           | -20 °C, 4 °C                                                                                                           |

## Handling

---

Storage Comment: ME1 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.