

## Mouse ME1 Monoclonal Antibody | anti-ME1 antibody

Anti-ME1 Antibody Picoband (monoclonal, 5E5F7)

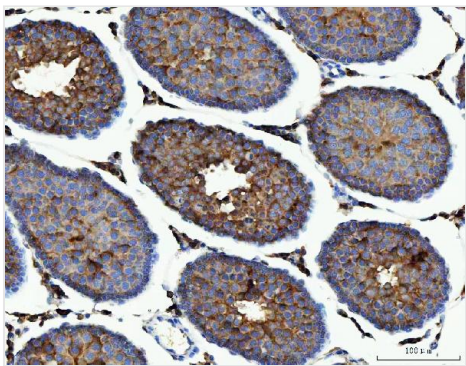
|                               |                      |                                        |                                                           |
|-------------------------------|----------------------|----------------------------------------|-----------------------------------------------------------|
| CATALOG #<br><b>AAA126928</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human, Mouse, Rat</b> | APPLICATIONS<br><b>Immunohistochemistry, Western Blot</b> |
|-------------------------------|----------------------|----------------------------------------|-----------------------------------------------------------|

### PRODUCT SYNONYMS

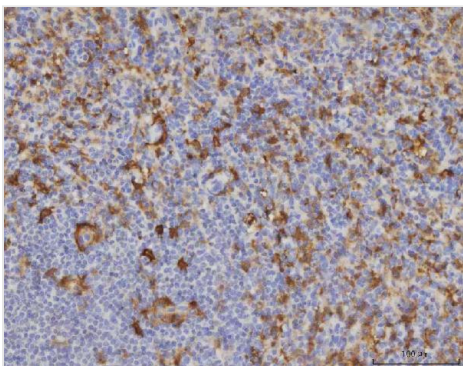
ME1; Monoclonal Antibody; Anti-ME1 Antibody Picoband (monoclonal; 5E5F7); anti-ME1 antibody

### PRODUCT SPECIFICATIONS

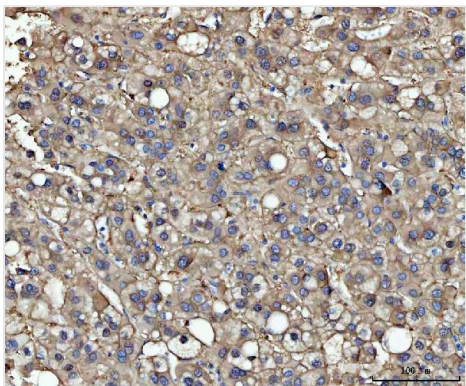
|                                               |                                                                                                                                                                                                                              |
|-----------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                          | Mouse                                                                                                                                                                                                                        |
| Reactivity                                    | Human, Mouse, Rat                                                                                                                                                                                                            |
| Clonality                                     | Monoclonal                                                                                                                                                                                                                   |
| Isotype                                       | Mouse IgG1                                                                                                                                                                                                                   |
| Clone Number                                  | 5E5F7                                                                                                                                                                                                                        |
| Purity/Purification                           | Immunogen affinity purified.                                                                                                                                                                                                 |
| Form/Format                                   | Lyophilized<br>Each vial contains 4 mg Trehalose, 0.9 mg NaCl and 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                  |
| Concentration                                 | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)                                                                                                                                    |
| Applicable Applications for anti-ME1 antibody | IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                                                |
| Reconstitution                                | Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.                                                                                                                                                    |
| Immunogen                                     | E Coli-derived human ME1 recombinant protein (Position: M1-Q572).                                                                                                                                                            |
| Preparation and Storage                       | Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing. |



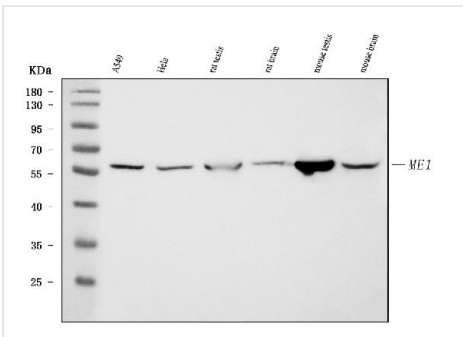
**IHC (Immunohistochemistry)**  
Figure 4. IHC analysis of ME1 using anti-ME1 antibody (AAA126928).ME1 was detected in a paraffin-embedded section of rat testis tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-ME1 Antibody (AAA126928) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



**IHC (Immunohistochemistry)**  
Figure 3. IHC analysis of ME1 using anti-ME1 antibody (AAA126928).ME1 was detected in a paraffin-embedded section of human spleen tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-ME1 Antibody (AAA126928) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



**IHC (Immunohistochemistry)**  
Figure 2. IHC analysis of ME1 using anti-ME1 antibody (AAA126928).ME1 was detected in a paraffin-embedded section of human liver cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml mouse anti-ME1 Antibody (AAA126928) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-mouse IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Mouse IgG Super Vision Assay Kit with DAB as the chromogen.



**WB (Western Blot)**  
Figure 1. Western analysis of ME1 using anti-ME1 antibody (AAA126928).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human A549 whole cell lysates,Lane 2: human Hela whole cell lysates,Lane 3: rat testis tissue lysates,Lane 4: rat brain tissue lysates,Lane 5: mouse testis tissue lysates,Lane 6: mouse brain tissue lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with mouse anti-ME1 antigen affinity purified monoclonal antibody (#AAA126928) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-mouse IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ME1 at approximately 64 kDa. The expected band size for ME1 is at 64 kDa.

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ME1 antibody | 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. |
| Product Categories/Family for anti-ME1 antibody   | Primary Antibodies, Mouse Monoclonal Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

NCBI AND UNIPROT INFORMATION

|           |         |
|-----------|---------|
| NCBI GI # | 4505143 |
|-----------|---------|

|                                  |                                                                                                                                                                                                       |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GeneID                      | <a href="#">4199</a>                                                                                                                                                                                  |
| NCBI Accession #                 | <a href="#">NP_002386.1</a>                                                                                                                                                                           |
| NCBI GenBank Nucleotide #        | <a href="#">NM_002395.4</a>                                                                                                                                                                           |
| UniProt Accession #              | <a href="#">P48163</a> ; <a href="#">Q16797</a> ; <a href="#">Q16855</a> ; <a href="#">Q53F72</a> ; <a href="#">Q5VWA2</a> ; <a href="#">Q9BWX8</a> ; <a href="#">Q9H1W3</a> ; <a href="#">Q9UIY4</a> |
| Molecular Weight                 | 64,150 Da                                                                                                                                                                                             |
| NCBI Official Full Name          | NADP-dependent malic enzyme                                                                                                                                                                           |
| NCBI Official Synonym Full Names | malic enzyme 1, NADP(+)-dependent, cytosolic                                                                                                                                                          |
| NCBI Official Symbol             | ME1                                                                                                                                                                                                   |
| NCBI Official Synonym Symbols    | MES; HUMNDME                                                                                                                                                                                          |
| NCBI Protein Information         | NADP-dependent malic enzyme; NADP-ME; malate dehydrogenase; malic enzyme 1, soluble; Malic enzyme, cytoplasmic; pyruvic-malic carboxylase                                                             |
| UniProt Protein Name             | NADP-dependent malic enzyme                                                                                                                                                                           |
| UniProt Gene Name                | <b>ME1</b>                                                                                                                                                                                            |
| UniProt Synonym Gene Names       | NADP-ME                                                                                                                                                                                               |
| UniProt Entry Name               | MAOX_HUMAN                                                                                                                                                                                            |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/monoclonal/me1-antibody-clone-5e5f7-immunohistochemistry-western-blot-elisa/126928>