

Datasheet for ABIN7599485
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:	Mouse
Clonality:	Monoclonal
Conjugate:	This ME1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-ME1 Antibody Picoband® (monoclonal, 5E5F7)
Immunogen:	E.coli-derived human ME1 recombinant protein (Position: M1-Q572).
Clone:	5E5F7
Isotype:	IgG1
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-ME1 Antibody Picoband® (monoclonal, 5E5F7) (ABIN7599485). 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

Purification: Immunogen affinity purified.

Target Details

Target: ME1

Alternative Name: ME1 ([ME1 Products](#))

Background: Synonyms: Survival motor neuron protein, Component of gems 1, Gemin-1, SMN1, SMN, SMNT, SMN2, SMNC

Tissue Specificity: Expressed in a wide variety of tissues. Expressed at high levels in brain, kidney and liver, moderate levels in skeletal and cardiac muscle, and low levels in fibroblasts and lymphocytes. Also seen at high levels in spinal cord. Present in osteoclasts and mononuclear cells (at protein level).

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.

Molecular Weight: 64 kDa

Gene ID: 4199

UniProt: [P48163](#)

Pathways: [Regulation of Lipid Metabolism by PPARalpha](#)

Application Details

Application Notes: Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat
Immunohistochemistry(Paraffin-embedded Section), 2-5 µg/mL, Human, Rat
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.

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Adding 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 and 0.2 mg Na2HPO4.
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. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.