

## ME2 monoclonal antibody

Catalog: MB66936

Host: Mouse

Reactivity: Human, Mouse

### BackGround:

Malic enzymes catalyze oxidative decarboxylation of malate to pyruvate. The malic enzyme family in mammalian cells includes the cytosolic malic enzyme 1 and two mitochondrial malic enzymes. ME1 and ME2 are critical for tumor cell growth and their expression is repressed by tumor suppressor p53. Reduced expression of ME1 and ME2 reciprocally increases the levels and activation of p53, promoting p53-mediated senescence. Research studies show ME3 is essential for the survival of pancreatic ductal adenocarcinoma following genomic deletion of ME2. Deletion of ME3 is lethal to ME2-null cancer cells, which has been suggested to provide a potential therapeutic opportunity using collateral lethality.

### Product:

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

### Molecular Weight:

~ 60 kDa

### Swiss-Prot:

P23368

### Purification&Purity:

This antibody is purified through a protein G column.

### Applications:

WB (1/1000 - 1/2000), IHC (1/50 - 1/200)

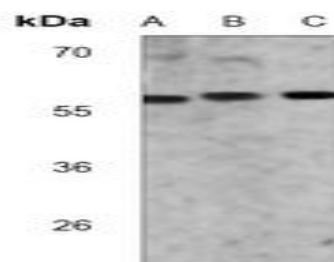
### Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

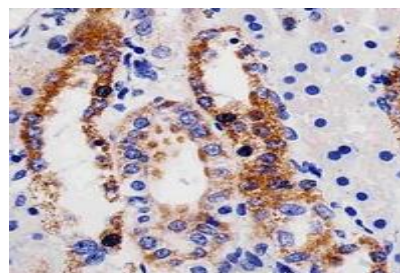
### Specificity:

Recognizes endogenous levels of ME2 protein.

### DATA:



Western blot analysis of ME2 expression in HL60 (A), NIH3T3 (B), Jurkat (C) whole cell lysates.



Immunohistochemical analysis of ME2 staining in human kidney formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

### Note:

For research use only, not for use in diagnostic procedure.

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