

MICU1 monoclonal antibody

Catalog: MB65961

Host: Mouse

Reactivity: Human, Mouse, Rat

BackGround:

CBARA1/MICU1 is a mitochondrial protein associated to the mitochondrial inner membrane that is comprised of two EF hand helix-loop-helix motifs. CBARA1/MICU1 is involved in mitochondrial calcium entry, metabolic coupling between cytosolic calcium transients, and activation of matrix dehydrogenases. Mitochondrial CBARA1/MICU1 is required to preserve normal mitochondrial calcium concentration below the equilibrium level by interacting with the uniporter pore-forming subunit MCU. CBARA1/MICU1 is important in pancreatic β -cell mitochondrial calcium uptake and sustained insulin secretion.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 54 kDa

Swiss-Prot:

Q9BPX6

Purification&Purity:

The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB (1/1000 - 1/2000), IHC (1/100 - 1/200)

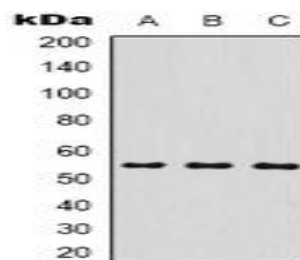
Storage&Stability:

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

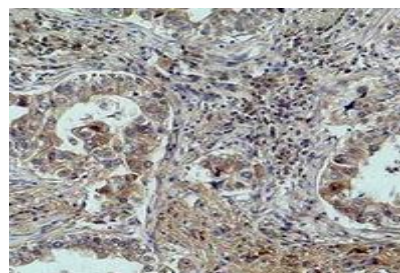
Specificity:

Recognizes endogenous levels of MICU1 protein.

DATA:



Western blot analysis of MICU1 expression in MCF7 (A), mouse brain (B), rat brain (C) whole cell lysates.



Immunohistochemical analysis of MICU1 staining in human lung cancer 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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