

Monoclonal Antibody to Mitochondria - Purified

Catalog No.:	AM00350PU-N
Quantity:	0.1 mg
Concentration:	0.2 mg/ml
Background:	This monoclonal antibody is part of a new panel of reagents which recognizes subcellular organelles or compartments of human cells. These markers may be useful in identification of these organelles in cells, tissues, and biochemical preparations. It produces a "spaghetti"-like staining pattern in the cytoplasm of normal and malignant human cells and may be used to stain the mitochondria in paraformaldehyde fixed frozen and formalin-fixed, paraffin-embedded tissues.
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	MTC02
Immunogen:	Semi-purified mitochondrial preparation. Remarks: Mol. Wt. of Antigen: 60 kDa
Format:	State: Liquid purified IgG fraction. Purification: Protein G Chromatography. Buffer System: 10 mM PBS, pH 7.4, with 0.2% BSA as stabilizer and 0.09% Sodium Azide as preservative.
Applications:	Immunofluorescence. Western Blotting: 1-2 micrograms/ml for 2hrs at RT. Immunohistology (Formalin/paraffin): 1-2 micrograms/ml for 30 min at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min. Recommended Positive Control: HeLa Cells, Liver. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes a 60 kDa nonglycosylated protein component of mitochondria found in human cells. It can be used to stain the mitochondria in cell or tissue preparations and can be used as a marker of the mitochondria in subcellular fractions. Cellular Localization: Cytoplasmic. Species: Human. Other species not tested.
Storage:	Store the antibody (undiluted) at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

Pictures:

Formalin-fixed, paraffin-embedded human liver stained with anti-mitochondria antibody cat.no. AM00350PU-N using peroxidase-conjugate and AEC chromogen. Note granular staining of hepatocytes.

