

AM33293PU-S**Monoclonal Antibody to Mitochondria - Purified**

Quantity:	0.1 mg
Concentration:	0.2 mg/ml
Host / Isotype:	Mouse / IgG1
Recommended Isotype Controls:	SM10P (for use in human samples), AM03095PU-N
Clone:	MTC02
Immunogen:	Semi-purified mitochondrial preparation.

Format: State: Liquid purified IgG fraction from Bioreactor Concentrate

Purification: Protein A/G Chromatography

Buffer System: 10mM PBS

Preservatives: 0.05% Sodium Azide

Stabilizers: 0.05% BSA

Applications:

ELISA: Use BSA free Antibody for Coating.

Western Blot: 0.25-0.5 µg/ml.

Immunoprecipitation: 0.5-1 µg/500 µg protein lysate.

Immunofluorescence: 0.5-1 µg/ml.

Immunohistochemistry on Frozen and Formalin-Fixed Paraffin Sections: 0.5-1 µg/ml for 30 minutes at RT.

Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 1mM EDTA Buffer, pH 8.5-9.5, for 10-20 min followed by cooling at RT for 20 minutes.

Recommended Positive Control: HeLa or HepG2 cells. Hepatic carcinoma.

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Molecular Weight:

60kDa

Specificity:

This Monoclonal Antibody recognizes a 60kDa antigen associated with the mitochondria in human cells. It is a 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. This MAb recognizes an antigen associated with the mitochondria in human cells only. It can be used to stain the mitochondria in cell or tissue preparations and can be used as a mitochondrial marker in subcellular fractions. It produces a spaghetti-like pattern in normal and malignant cells and may be used to stain mitochondria of cells in fixed or frozen tissue sections. It can also be used with paraformaldehyde fixed frozen tissue or cell preparations.

This Monoclonal Antibody is an excellent marker for human cells in xenographic model research. It reacts specifically with human cells, including neurons and embryonic stem cells.

Cellular Localization: Mitochondria in cytoplasm.

Negative Species: Mouse, Rat.

- Species Reactivity:** Tested: Human.
- Storage:** Store undiluted at 2-8°C.
Shelf life: one year from despatch.
- Pictures:** Formalin-Fixed, Paraffin-Embedded Human liver stained with anti-Mitochondria antibody Clone MTC02 using peroxidase conjugate and AEC chromogen. Note granular staining of hepatocytes.

