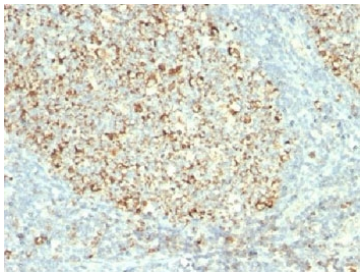
Mitochondria Antibody [clone MTC02] (V2353)

Catalog No.	Formulation	Size
V2353-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2353-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2353SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2353IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

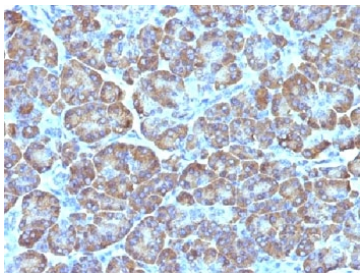
Citations (10)

Bulk quote request

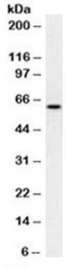
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	MTC02
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	Unknown
Localization	Mitochondria in cytoplasm
Applications	Immunofluorescence : 0.5-1ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT
Limitations	This **Mitochondria antibody** is available for research use only.



IHC testing of FFPE human tonsil with Mitochondria antibody



IHC testing of FFPE human pancreas with Mitochondria antibody



Western blot testing of human HeLa cell lysate with Mitochondria antibody (clone MTC02).

Description

Clone MTC02 antibody recognizes a unique 60kDa antigen that is present only on mitochondria in human cells. It is a part of a panel of reagents which recognizes subcellular organelles or compartments. These markers may be useful in identification of these organelles in cells, tissues, and biochemical preparations. This antibody recognizes an antigen associated with the mitochondria specific to human cells alone. MTC02 mAb can be used to stain the mitochondria in cell or tissue preparations and can be used as a marker in subcellular fractions. The antibody 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. MTC02 antibody is an excellent marker for human cells in xenographic model research. It reacts specifically with human cells, including neurons and embryonic stem cells.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the Mitochondria antibody to be titered up or down for optimal performance.

1. 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.
2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.

Immunogen

A semi-purified mitochondria preparation was used as the immunogen for the Mitochondria antibody.

Storage

Store the Mitochondria antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).