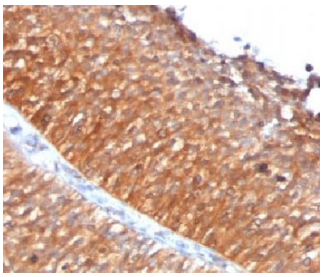
Mitochondrial Antibody [clone MTC719] (V2354)

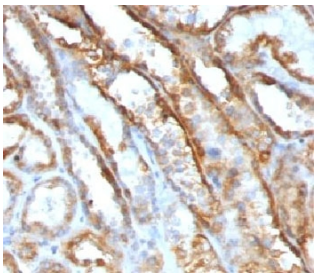
Catalog No.	Formulation	Size
V2354-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2354-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2354SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V2354IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml

Bulk quote request

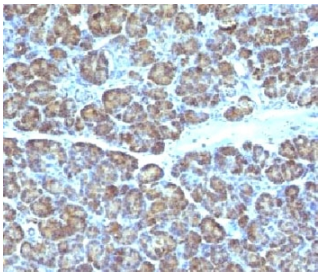
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	MTC719
Purity	Protein G affinity chromatography
Buffer	1X PBS, pH 7.4
Gene ID	Unknown
Localization	Mitochondria in cytoplasm
Applications	Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This **Mitochondrial antibody** is available for research use only.



IHC testing of FFPE human bladder carcinoma with Mitochondrial antibody (clone MTC719).



IHC testing of FFPE human renal cell carcinoma with Mitochondrial antibody (clone MTC719).



IHC testing of FFPE human pancreas with Mitochondrial antibody (clone MTC719).

Description

MAb MTC719 recognizes a 60kDa antigen associated with the mitochondria in cells. It is a part of a new panel of reagents, which recognizes subcellular organelles or compartments of cells. These markers may be useful in identification of these organelles in cells, tissues, and biochemical preparations. MAb MTC719 recognizes an antigen associated with the mitochondria in cells from a wide variety of animals, but not insects and bacteria. 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.

Application Notes

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

1. Staining of formalin-fixed tissues is enhanced by boiling tissue sections in pH 9 10mM Tris with 1mM EDTA 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

The Mitochondrial fraction of HeLa cells was used as the immunogen for this Mitochondrial antibody.

Storage

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