

Anti-Mitochondrial Antibody [clone AE-1] (V3111)

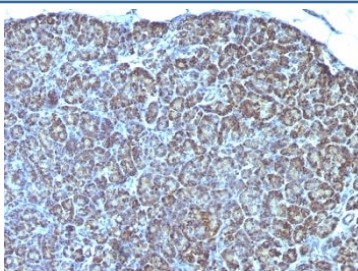
Catalog No.	Formulation	Size
V3111-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3111-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3111SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug
V3111IHC-7ML	Prediluted in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide; *For IHC use only*	7 ml



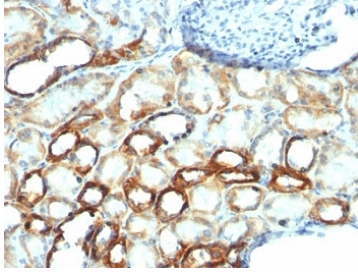
Citations (5)

[Bulk quote request](#)

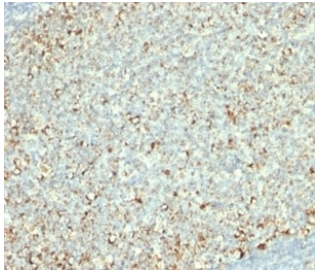
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	AE-1
Purity	Protein G affinity chromatography
UniProt	Not Known
Localization	Cytoplasmic (Mitochondria)
Applications	ELISA (order BSA/sodium Azide-free Format For Coating) : Immunofluorescence : 0.5-1ug/ml Western Blot : 0.25-0.5ug/ml Immunohistochemistry (FFPE) : 0.5-1ug/ml for 30 min at RT
Limitations	This anti-Mitochondrial antibody is available for research use only.



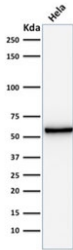
IHC: Formalin-fixed, paraffin-embedded human pancreas stained with anti-Mitochondrial antibody (clone AE-1).



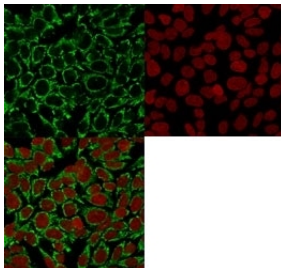
IHC: Formalin-fixed, paraffin-embedded human tonsil stained with anti-Mitochondrial antibody (clone AE-1).



IHC: Formalin-fixed, paraffin-embedded human tonsil stained with anti-Mitochondrial antibody (clone AE-1).



Western blot testing of human HeLa cell lysate with anti-Mitochondrial antibody (clone AE-1).



Immunofluorescent staining of human HeLa cells with anti-Mitochondrial antibody (clone AE-1, green) and Reddot nuclear stain (red).

Description

This mAb 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. It 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 mAb 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

Optimal dilution of the anti-Mitochondrial antibody should be determined by the researcher.

1. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 10-20 min followed by cooling at RT for 20 min.
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 mitochondrial preparation was used as the immunogen for the anti-Mitochondrial antibody.

Storage

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