

Mimitin Antibody

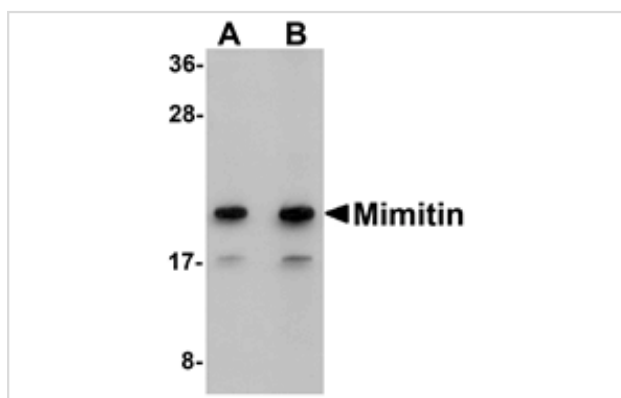
Catalog No: #24987

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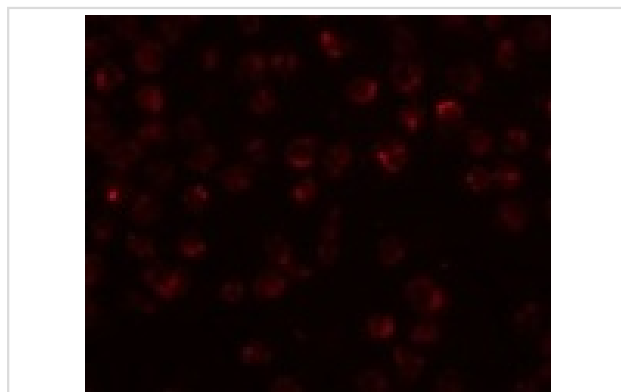
Description

Product Name	Mimitin Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IF
Species Reactivity	Hu
Immunogen Type	Peptide
Immunogen Description	Raised against a 14 amino acid peptide from near the carboxy terminus of human Mimitin.
Target Name	Mimitin
Other Names	NADH dehydroxygenase (ubiquinone) 1 alpha subcomplex, assembly factor 2, NDUFAF2, NDUFA12L, MMTN
Accession No.	Swiss-Prot:Q8N183Gene ID:91942
Uniprot	Q8N183
GeneID	91942;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Images



Western blot analysis of Mimitin in Raji cell lysate with Mimitin antibody at (A) 1 and (B) 2 ug/mL.



Immunofluorescence of Mimitin in Raji cells with Mimitin antibody at 20 ug/mL.

Background

Mimitin, a small mitochondrial protein, whose transcription is directly stimulated by c-Myc, is highly expressed in 80% of esophageal squamous cell carcinomas (ESCC). Suppression of Mimitin expression by RNA interference had no effect in cancerous cell lines such as human cervical carcinoma or hepatocarcinoma cell lines, but caused a decrease in cell proliferation in human glioblastoma, embryonic lung fibroblastic cells, and ESCC, suggesting Mimitin may play a special role in these types of cells. Mimitin expression is also regulated by MAPK kinases and IL-1, but not through the NF- κ B-related pathway. It will interact with the microtubular protein MAP1S and can affect the activities of caspase-3 and -7 in cells stimulated to develop apoptosis. Other experiments suggest that Mimitin also acts as a molecular chaperone for the assembly of the mitochondrial complex I.

Note: This product is for in vitro research use only