

Datasheet for 600-401-CU5**Mimitin Antibody****Overview**

Description:	Anti-Mimitin (RABBIT) Antibody - 600-401-CU5
Item No.:	600-401-CU5
Size:	100 µg
Applications:	ELISA, IF, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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-κB-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.
Synonyms:	Mimitin Antibody, MMTN, B17.2L, mimitin, NDUFA12L, Mimitin, mitochondrial, Myc-induced mitochondrial protein, MMTN
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NDUFAF2
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Mimitin antibody was prepared from whole rabbit serum produced by repeated immunizations with a 14 amino acid synthetic peptide from near the C-terminus of human Mimitin.
Purity/Specificity:	Anti-Mimitin Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with Mimitin from other sources has not been determined.
Relevant Links:	• UniProtKB - Q8N183 • GeneID - 91942 • NCBI - NP_777549

Application Details

Tested Applications:	ELISA, IF, WB
Application Note:	Anti-Mimitin Antibody has been tested for use in ELISA, Western Blotting and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 20 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:20,000
IF:	20 µg/mL
WB:	1-2 µg/mL

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

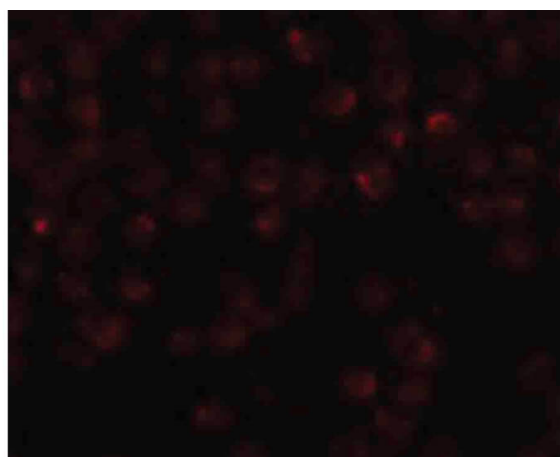
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

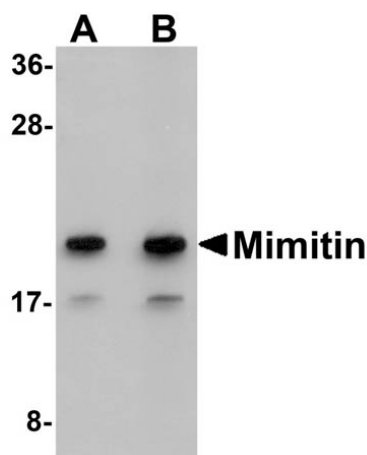
Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

Immunofluorescence Microscopy of Mimitin antibody.
 Tissue: Raji cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: Mimitin antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: Mimitin is localized in the Mitochondrion. Staining: Mimitin as red fluorescent signal.



Western Blot

Western Blot of Mimitin antibody. Lane 1: Raji cell lysate with Mimitin antibody at 1 µg/mL. Lane 2: Raji cell lysate with Mimitin antibody at 2 µg/mL. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 20 kDa, 20 kDa for Mimitin. Other band(s): Mimitin splice variants and isoforms.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.