

Datasheet for 909-301-D79**Mitochondria Antibody****Overview**

Description:	Anti-Mitochondria (MOUSE) Antibody - 909-301-D79
Item No.:	909-301-D79
Size:	100 µL
Applications:	IF, IHC, WB
Reactivity:	Human
Host Species:	Mouse

Product Details

Background:	Mitochondria antibody detects human Mitochondria. Mitochondria are most commonly known as the power plants of the cell as they produce ATP, but they are also involved in many other important cellular processes such as cell signaling, growth and differentiation. In addition, mitochondria have been shown to play a role in apoptosis. This antibody is an excellent marker for human cells in xenographic model research.
Synonyms:	mouse anti-Mitochondria Antibody, Human cell marker antibody, xenographic model research antibodies, anti-mitochondria antibody produced in mouse
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	113-1
Format:	IgG1

Target Details

Reactivity:	Human
Immunogen Type:	Other
Immunogen:	Anti-Mitochondria Monoclonal Antibody was produced by repeated immunizations with a human cell homogenate.

Purity/Specificity:	Anti-Mitochondria antibody is specific for human mitochondria in all cell types. The antibody is a protein A purification from concentrated clarified cell culture supernate. The antibody reacts specifically with human cells, including neurons and embryonic stem cells. The antibody does not cross react with mitochondria from mouse or rat.
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Application Details

Tested Applications:	IF, IHC, WB
Application Note:	Anti-Mitochondria antibody is tested for use in Western Blotting, IHC and IF. Expect ~60kDa in WB. Anti-Anti-Mitochondria antibody works on acetone fixed and 2% paraformaldehyde fixed cells. The antibody also works for immunohistochemistry on 2% paraformaldehyde fixed cryostat sections. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000 - 1:40,000
IF:	1:100 - 1:1,000
IHC:	1:800
WB:	1:200 - 1:2,000

Formulation

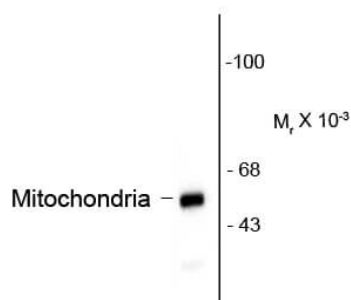
Physical State:	Liquid
Concentration:	Titred value sufficient to run approximately 10 mini blots.
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. This product is stable at 4° C as an undiluted liquid. For extended storage, aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images

Anti-Mitochondria



Western blot of HeLa lysate showing specific immunolabeling of the ~60k mitochondrial protein.

Western Blot

Western Blot of Anti-Mitochondria (Mouse) Antibody. Lane 1: HeLa lysate. Lane 2: none. Load: 10 µg per lane. Primary antibody: Mitochondria antibody at 1:400 for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: ~60kDa/~60kDa for mitochondrial protein. Other band(s): none.

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.