

Anti-Mitochondria Antibody



Product Details

Available Variants	100 µL (SKU:1155-MIT) 25 µL (SKU:1155-MITt)
Conjugate	Unconjugated
Isotype	IgG1
Clone	113-1
Host Species	Mouse
Format	Protein A Purified
Physical State	Liquid
Buffer	PBS
Production Notes	Protein A purified culture supernatant
Applications	ELISA, IF, IHC, WB
Dilution Ranges	WB: 1:1000 IHC: 1:100-1:800 ICC: 1:100-1:800
Species Reactivity	Human
Immunogen	Human cell homogenate
Specificity	Specific for endogenous levels of the ~60 kDa human mitochondria. The antibody works on acetone fixed and 2% paraformaldehyde fixed cells. The antibody also works for immunohistochemistry on 2% paraformaldehyde fixed (5-10 minutes) cryostat sections.
Molecular Weight	60 kDa
Quality Control	Western blots performed on each lot.
Storage	Recommended that the undiluted antibody be aliquoted into smaller working volumes (10-30 µL/vial depending on usage) upon arrival and stored long term

at -20° C or -80° C, while keeping a working aliquot stored at 4° C for short term. Avoid freeze/thaw cycles. Stable for at least 1 year.

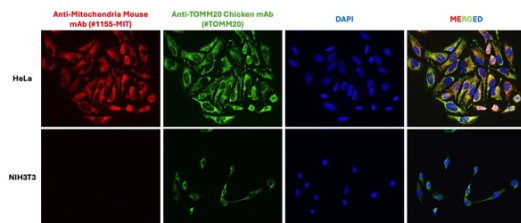
Antibody Registry ID AB_2492154

Shipping Blue Ice

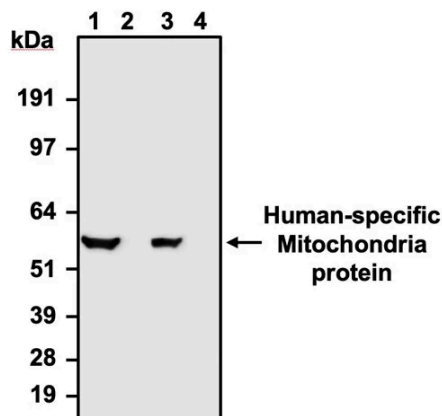
Expiration After date of receipt, stable for at least 1 year at -20°C.

Usage Statement For research use only. Not intended for therapeutic or diagnostic use. Use of all products is subject to our terms and conditions, which can be viewed on our website.

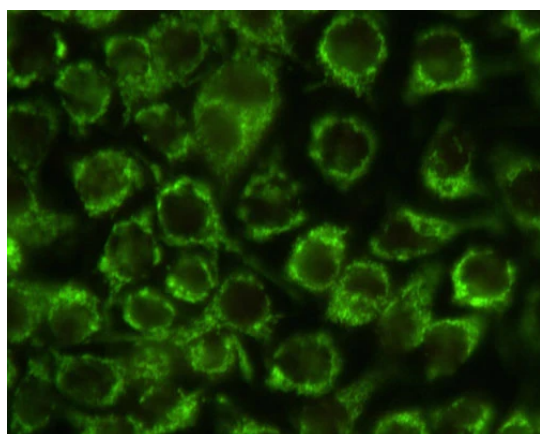
Product Images



Immunofluorescent staining of HeLa and NIH3T3 cells using PhosphoSolutions anti-Mitochondria (human specific) mouse monoclonal antibody [113-1](Cat No. 1155-MIT) and Aves Labs chicken anti-TOMM20 antibody (Cat No. TOMM20). The cells were fixed with 3% paraformaldehyde, washed with PBS, and blocked/permeabilized with 5% non-fat milk powder in PBST. The anti-Mitochondria antibody (Cat No. 1155-MIT) and the anti-TOMM20 antibody were incubated with the sample at a dilution of 1:800 and 1:200, respectively, at 4°C overnight. After washing with PBST, the cells were stained using goat anti-mouse IgY CF488 secondary antibody (Cat No. 80-1001-488) (green) and goat anti-mouse 594 secondary antibody (red). The staining revealed a complete overlap between the signal from the chicken anti-TOMM20 antibody and the mouse anti-Mitochondria antibody specifically in the cell mitochondria only in HeLa cells. The cells were mounted with Antibodies Incorporated Fluoroshield with DAPI mounting medium (Cat No. AR-6501). DAPI nuclear stain (blue) shows cell nuclei.



Western blot detection of a human-specific mitochondria protein in HeLa (lanes 1, 3) and NIH3T3 (lanes 2, 4) cell lysates using Aves Labs anti-Mitochondria chicken recombinant antibody [113-1] (Cat No. 78-607) and PhosphoSolutions anti-Mitochondria mouse monoclonal antibody [113-1] (Cat No. 1155-MIT). 4-12% Bis-Tris gel was loaded with 20 ug of HeLa and NIH3T3 cell lysates. Proteins were transferred to PVDF membrane and blocked with 5% non-fat milk powder. Anti-Mitochondria chicken (Cat No. 78-607) (lanes 1, 2) and anti-Mitochondria mouse (Cat No. 1155-MIT) (lanes 3, 4) antibodies were incubated with the membrane at a concentration of 1:1000 (1ug/ml). The primary antibodies were then detected via chemiluminescence (6 seconds) using a goat anti-Chicken H+L, HRP conjugated (lanes 1, 2) or goat anti-mouse H+L, HRP conjugated (lanes 3, 4) secondary antibodies. Anti-Mitochondria chicken and mouse antibodies recognize a non-glycosylated protein component of mitochondria only in human HeLa cell lysates and not in mouse NIH3T3 cell lysates at ~60 kDa.



Immunofluorescence of HeLa cells labeled with anti-mitochondria antibody (1:100, green).

Product Page URL: www.antibodiesinc.com/products/anti-mitochondria-antibody-1155-mit



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