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PRODUCT DATASHEET

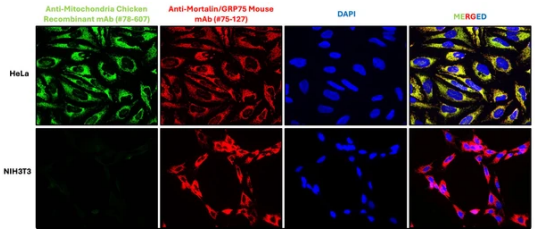
Anti-Mitochondria Recombinant Chicken Chimeric mAb

Product Details

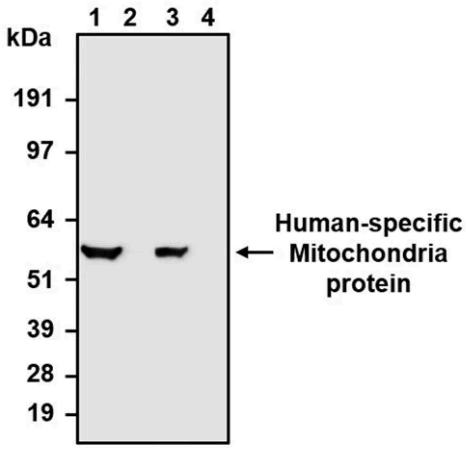
Available Variants	100 µL (SKU:78-607) 20 µL (SKU:78-607-020)
Conjugate	Unconjugated
Isotype	IgY
Clone	113-1
Host Species	Chicken
Concentration	1 mg/mL
Format	Purified by affinity chromatography
Physical State	Liquid
Buffer	1X PBS, 0.05% Sodium Azide pH 7.4
Production Notes	This recombinant antibody is a chimeric antibody created by replacing the mouse heavy and light constant regions of clone 113-1 with chicken IgY heavy and light constant regions. As such this antibody retains the same binding performance as the original clone 113-1 but can be detected using standard anti-chicken secondary antibodies allowing flexibility for multiplexing applications. This antibody is expressed recombinantly in mammalian cells and then affinity purified from the cell culture media.
Applications	ELISA, ICC, IHC, WB
Dilution Ranges	WB: 1:1000-1:5000 IHC: 1:100-1:800 ICC: 1:100-1:800
Species Reactivity	Human
Immunogen	Human cell homogenate
Specificity	No cross-reactivity against recombinant Chapsyn-110, SAP97 or SAP102

Molecular Weight	60 kDa
Quality Control	Each new lot of antibody is quality control tested by Western blot on HeLa cell lysates and confirmed to stain the expected molecular weight band.
Storage	Aliquot and store at ≤ -20°C for long term storage. For short term storage, store at 2-8°C. For maximum recovery of product, centrifuge the vial prior to removing the cap.
Country of Origin	United States
Shipping	Shipped on ice packs
Expiration	24 months from date of receipt
Usage Statement	These antibodies are to be used as research laboratory reagents and are not for use as diagnostic or therapeutic reagents in humans.

Product Images



Immunofluorescent staining of HeLa and NIH3T3 cells using Aves Labs anti-Mitochondria (human specific) chicken recombinant antibody [113-1](Cat No. 78-607) and Antibodies Inc. mouse anti-Mortalin/GRP75 antibody (Cat No. 75-127). 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. 78-607) and the anti-Mortalin/GRP75 antibody were incubated with the sample at a dilution of 1:400 (0.5 ug/mL) and 1:500 (2 ug/mL), respectively, at 4C overnight. After washing with PBST, the cells were stained using goat anti-chicken 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-Mitochondria antibody and the mouse anti-Mortalin 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.