

Product Datasheet

Mitochondria Antibody (MTC02) NB600-556

Unit Size: 0.5 ml

Store at 4C. Do not freeze.

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NB600-556**Mitochondria Antibody (MTC02)**

Product Information	
Unit Size	0.5 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Monoclonal
Clone	MTC02
Preservative	0.09% Sodium Azide
Isotype	IgG1
Purity	Protein G purified
Buffer	PBS (pH 7.4) and 0.2% BSA
Product Description	
Host	Mouse
Species	Human, Mouse, Rat
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 21509527) Use in Mouse reported in scientific literature (PMID:33793647)
Marker	Mitochondria Marker
Immunogen	Semi purified mitochondrial preparation.
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 1 - 2 ug/ml, Immunohistochemistry 1:10 - 1:500, Immunocytochemistry/ Immunofluorescence 1:10 - 1:500, Immunohistochemistry-Paraffin 1 - 2 ug/ml
Application Notes	By Western blot, this antibody detects a band of 60 kDa, which corresponds to the predicted molecular weight of the non glycosylated protein component of mitochondria. Staining of formalin fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10 - 20 min followed by cooling at RT for 20 min. Has been tested in ICC/IF on Rat PMID: 22445482)

Publications

Flex E, Albadri S, Radio FC et al. Dominantly acting KIF5B variants with pleiotropic cellular consequences cause variable clinical phenotypes Human molecular genetics 2022-08-26 [PMID: 36018820] (ICC/IF, Human)

Details:
ICC 1:200

Nagasawa Y, Takei M, Iwata M et al. Human osteoclastogenesis in Epstein-Barr virus-induced erosive arthritis in humanized NOD/Shi--scid/IL-2R gamma null mice PloS one 2021-04-01 [PMID: 33793647] (ICC/IF, Mouse)

Colasuonno F, Niceforo A, Marioli C et al. Mitochondrial and Peroxisomal Alterations Contribute to Energy Dysmetabolism in Riboflavin Transporter Deficiency Oxid Med Cell Longev 2020-08-12 [PMID: 32855765] (ICC/IF, Human)

Masotti A, Celluzzi A, Petrini S et al. Aged iPSCs display an uncommon mitochondrial appearance and fail to undergo in vitro neurogenesis Aging (Albany NY). 2014-12-30 [PMID: 25567319] (ICC/IF, Human)

Details:
Mitochondria antibody used for ICC-IF on human young-induced pluripotent stem cells/ y-iPSCs or aged -iPSCs in proliferating condition and during in vitro neurogenesis - 20 minutes of fixation in 4% paraformaldehyde at RT, blocking with 10% bovine serum and 0.1% Triton X-100, primary detection with Alexa 555 conjugated secondary followed by Hoechst 33342 staining for nuclei (Figure 1).

Cueno ME, Imai K, Tamura M, Ochiai K. Butyric acid-induced rat jugular blood cytosolic oxidative stress is associated with SIRT1 decrease. Cell Stress Chaperones. 2013-09-20 [PMID: 24052229] (WB, Rat)

Cueno ME, Tamura M, Imai K, Ochiai K. Orally supplemented catechin increases heme amounts and catalase activities in rat heart blood mitochondria: A comparison between middle-aged and young rats. Exp Gerontol. 2013-09-01 [PMID: 24004580] (WB, Rat)

Giordano C, Perli E, Orlandi M et al. Cardiomyopathies due to homoplasmic mitochondrial tRNA mutations: morphologic and molecular features. Hum Pathol 2013-01-17 [PMID: 23332932] (IF/IHC, Human)

Kristin Andreas, Radostina Georgieva, Mechthild Ladwig. Highly efficient magnetic stem cell labeling with citrate-coated superparamagnetic iron oxide nanoparticles for MRI tracking Biomaterials [PMID: 22445482] (IF/IHC, Rat)





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Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis.
Primary Antibodies are guaranteed for 1 year from date of receipt.

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