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NDUFA9 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant NDUFA9.
Catalog # AT2999a

Specification

NDUFA9 Antibody (monoclonal) (M01) - Product Information

Application	**IF, WB, IHC, E**
Primary Accession	Q16795
Other Accession	NM_005002
Reactivity	**Human, Mouse, Rat**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**42510**

NDUFA9 Antibody (monoclonal) (M01) - Additional Information

Gene ID 4704

Other Names
NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 9, mitochondrial, Complex I-39kD, CI-39kD, NADH-ubiquinone oxidoreductase 39 kDa subunit, NDUFA9, NDUFS2L

Target/Specificity
NDUFA9 (NP_004993, 303 a.a. ~ 377 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

Storage
Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Precautions
NDUFA9 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

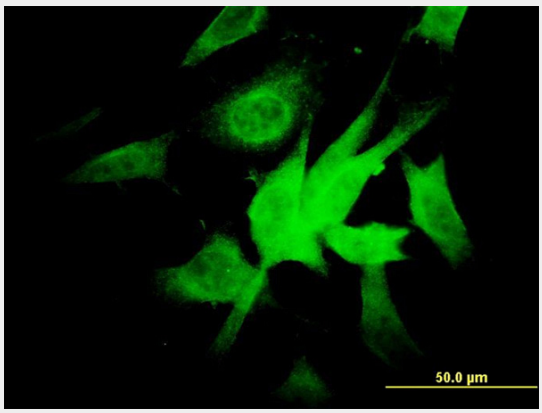
NDUFA9 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

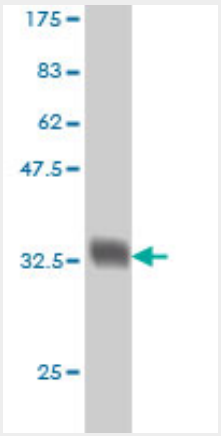
- Western Blot
- Blocking Peptides
- Dot Blot

- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

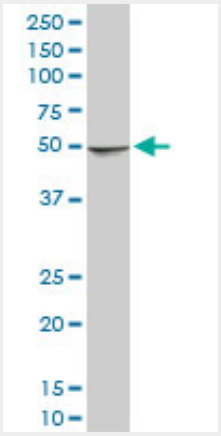
NDUFA9 Antibody (monoclonal) (M01) - Images



Immunofluorescence of monoclonal antibody to NDUFA9 on NIH/3T3 cell. [antibody concentration 10 ug/ml]



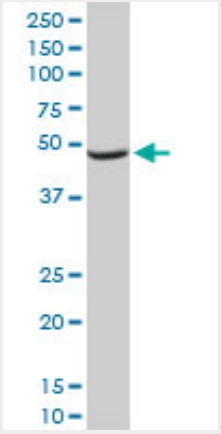
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (33.99 KDa) .



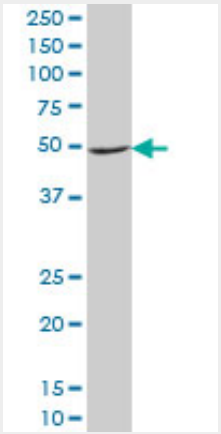
NDUFA9 monoclonal antibody (M01), clone 3D7. Western Blot analysis of NDUFA9 expression in

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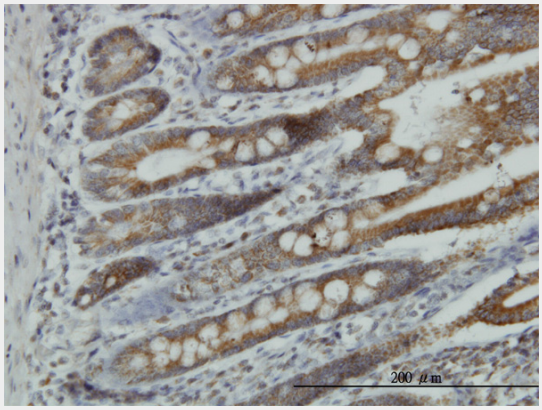
PC-12 ((Cat # AT2999a)



NDUFA9 monoclonal antibody (M01), clone 3D7. Western Blot analysis of NDUFA9 expression in Raw 264.7 ((Cat # AT2999a)

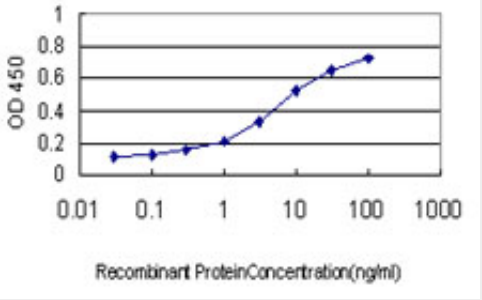


NDUFA9 monoclonal antibody (M01), clone 3D7 Western Blot analysis of NDUFA9 expression in NIH/3T3 ((Cat # AT2999a)



Immunoperoxidase of monoclonal antibody to NDUFA9 on formalin-fixed paraffin-embedded human small Intestine. [antibody concentration 0.8 ug/ml]

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Detection limit for recombinant GST tagged NDUFA9 is approximately 0.1ng/ml as a capture antibody.

NDUFA9 Antibody (monoclonal) (M01) - Background

The encoded protein is a subunit of the hydrophobic protein fraction of the NADH:ubiquinone oxidoreductase (complex I), the first enzyme complex in the electron transport chain located in the inner mitochondrial membrane. A pseudogene has been identified on chromosome 12.

NDUFA9 Antibody (monoclonal) (M01) - References

Polymorphisms in mitochondrial genes and prostate cancer risk. Wang L, et al. Cancer Epidemiol Biomarkers Prev, 2008 Dec. PMID 19064571.The SDR (short-chain dehydrogenase/reductase and related enzymes) nomenclature initiative. Persson B, et al. Chem Biol Interact, 2009 Mar 16. PMID 19027726.Oxidative stress, telomere length and biomarkers of physical aging in a cohort aged 79 years from the 1932 Scottish Mental Survey. Starr JM, et al. Mech Ageing Dev, 2008 Dec. PMID 18977241.GRIM-19 is essential for maintenance of mitochondrial membrane potential. Lu H, et al. Mol Biol Cell, 2008 May. PMID 18287540.A genetic association analysis of cognitive ability and cognitive ageing using 325 markers for 109 genes associated with oxidative stress or cognition. Harris SE, et al. BMC Genet, 2007 Jul 2. PMID 17601350.