

**NDUFA9 Antibody (monoclonal) (M01)**

Mouse monoclonal antibody raised against a partial recombinant NDUFA9.

Catalog # AT2999a

**Specification**

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**NDUFA9 Antibody (monoclonal) (M01) - Product Information**

Application	IF, WB, IHC, E
Primary Accession	<a href="#">Q16795</a>
Other Accession	<a href="#">NM_005002</a>
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.

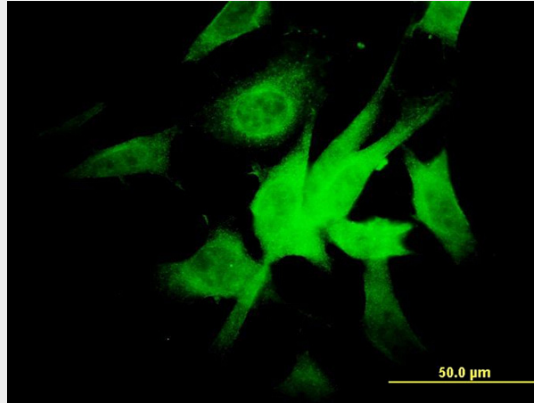
**NDUFA9 Antibody (monoclonal) (M01) - Protocols**

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

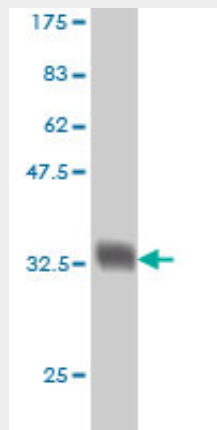
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

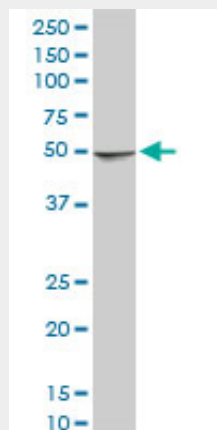
### NDUFA9 Antibody (monoclonal) (M01) - Images



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

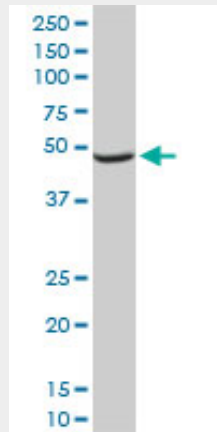


Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (33.99 KDa) .

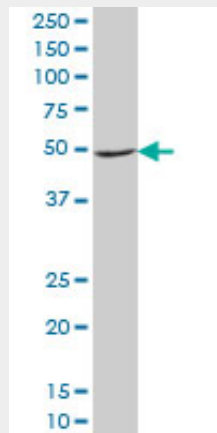


NDUFA9 monoclonal antibody (M01), clone 3D7. Western Blot analysis of NDUFA9 expression in

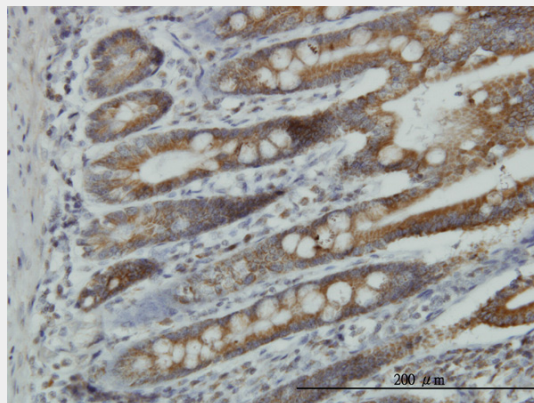
PC-12 ( (Cat # AT2999a )



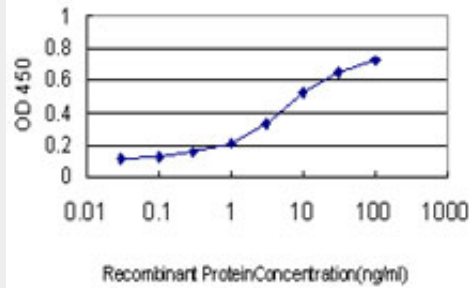
NDUFA9 monoclonal antibody (M01), clone 3D7. Western Blot analysis of NDUFA9 expression in Raw 264.7 ( (Cat # AT2999a )



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]



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.