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NDUFA9 Antibody (monoclonal) (M01)

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

Product Information

Application	WB, IHC, IF, E
Primary Accession	Q16795
Other Accession	NM_005002
Reactivity	Human, Mouse, Rat
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3D7
Calculated MW	42510

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 IHC~~1:100~500 IF~~1:50~200 E~~N/A
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.

Background

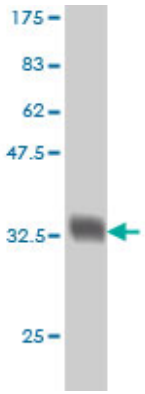
The encoded protein is a subunit of the hydrophobic protein fraction of the NADH:ubiquinone oxidoreductase (complex I), the first enzyme complex in the electron transport chain located in the inner mitochondrial membrane. A pseudogene has been identified on chromosome 12.

References

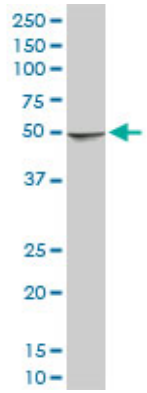
Polymorphisms in mitochondrial genes and prostate cancer risk. Wang L, et al. Cancer Epidemiol Biomarkers Prev, 2008 Dec. PMID 19064571.The SDR (short-chain dehydrogenase/reductase and related enzymes)

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.

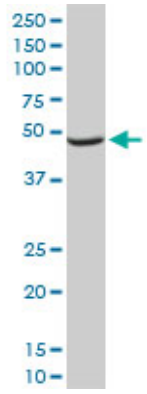
Images



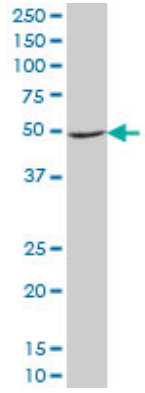
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (33.99 KDa) .



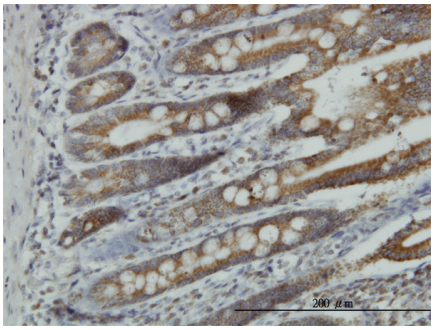
NDUFA9 monoclonal antibody (M01), clone 3D7. Western Blot analysis of NDUFA9 expression in PC-12 ((Cat # AT2999a)



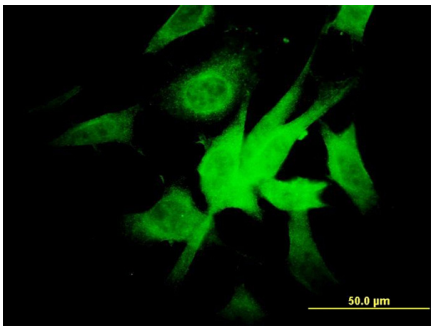
NDUFA9 monoclonal antibody (M01), clone 3D7. Western Blot analysis of NDUFA9 expression in Raw 264.7 ((Cat # AT2999a)



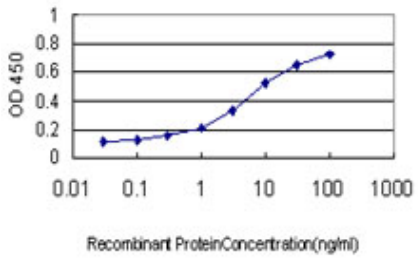
NDUFA9 monoclonal antibody (M01), clone 3D7 Western Blot analysis of NDUFA9 expression in NIH/3T3 ((Cat # AT2999a)



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



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



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