

# NDUFA1 monoclonal antibody (M10), clone 2A4

Catalog # H00004694-M10

Size 100 ug

## Specification

Product Description	Mouse monoclonal antibody raised against a full-length recombinant NDUFA1.
Immunogen	NDUFA1 (AAH00266, 1 a.a. ~ 70 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MWFEILPGLSVMGVCLLIPGLATAYIHRFTNGGKEKRVAHFGYHWSLMERDRRISGVDRYYVSKGL ENID
Host	Mouse
Reactivity	Human
Isotype	IgG2a Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

## Applications

- ELISA

## Gene Info — NDUFA1

Entrez GeneID	<a href="#">4694</a>
GeneBank Accession#	<a href="#">BC000266</a>
Protein Accession#	<a href="#">AAH00266</a>
Gene Name	NDUFA1

Gene Alias	CI-MWFE, MWFE, ZNF183
Gene Description	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1, 7.5kDa
Omim ID	<a href="#">252010 300078</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	<p>The human NDUFA1 gene codes for an essential component of complex I of the respiratory chain , which transfers electrons from NADH to ubiquinone. It has been noted that the N-terminal hydrophobic domain has the potential to be folded into an alpha-helix spanning the inner mitochondrial membrane with a C-terminal hydrophilic domain interacting with globular subunits of complex I. The highly conserved two-domain structure suggests that this feature is critical for the protein function and might act as an anchor for the NADH:ubiquinone oxidoreductase complex at the inner mitochondrial membrane. However, the NDUFA1 peptide is one of about 31 components of the "hydrophobic protein" (HP) fraction of complex I which is involved in proton translocation. Thus the NDUF A1 peptide may also participate in that function. [provided by RefSeq</p>
Other Designations	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1 NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1 (7.5kD, MWFE) NADH oxidoreductase subunit MWFE NADH:ubiquinone oxidoreductase (complex 1) OTTHUMP00000023930 type I dehydrogenase

## Pathway

- [Metabolic pathways](#)
- [Oxidative phosphorylation](#)