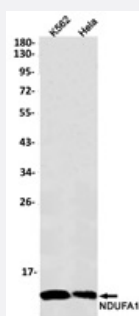


RecomAb™

NDUFA1 recombinant monoclonal antibody, clone R09-9B1

Catalog # RAB04943 Size 100 uL

Applications



Western Blot (Cell lysate)

Western blot analysis of K562, HeLa lysates with NDUFA1 recombinant monoclonal antibody, clone R09-9B1 (Cat # RAB04943).

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human NDUFA1.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human NDUFA1.
Theoretical MW (kDa)	8
Reactivity	Human
Form	Liquid
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:100) Immunoprecipitation(1:20) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50 mM Tris-Glycine, pH 7.4 (0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA)

Storage Instruction

Store at 4°C. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of K562, Hela lysates with NDUFA1 recombinant monoclonal antibody, clone R09-9B1 (Cat # RAB04943).

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

- Immunoprecipitation

Gene Info — NDUFA1

Entrez GeneID[4694](#)**Protein Accession#**[O15239](#)**Gene Name**

NDUFA1

Gene Alias

CI-MWFE, MWFE, ZNF183

Gene Description

NADH dehydrogenase (ubiquinone) 1 alpha subcomplex, 1, 7.5kDa

Omim ID[252010](#) [300078](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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 NDUFA1 peptide may also participate in that function. [provided by RefSeq]

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](#)