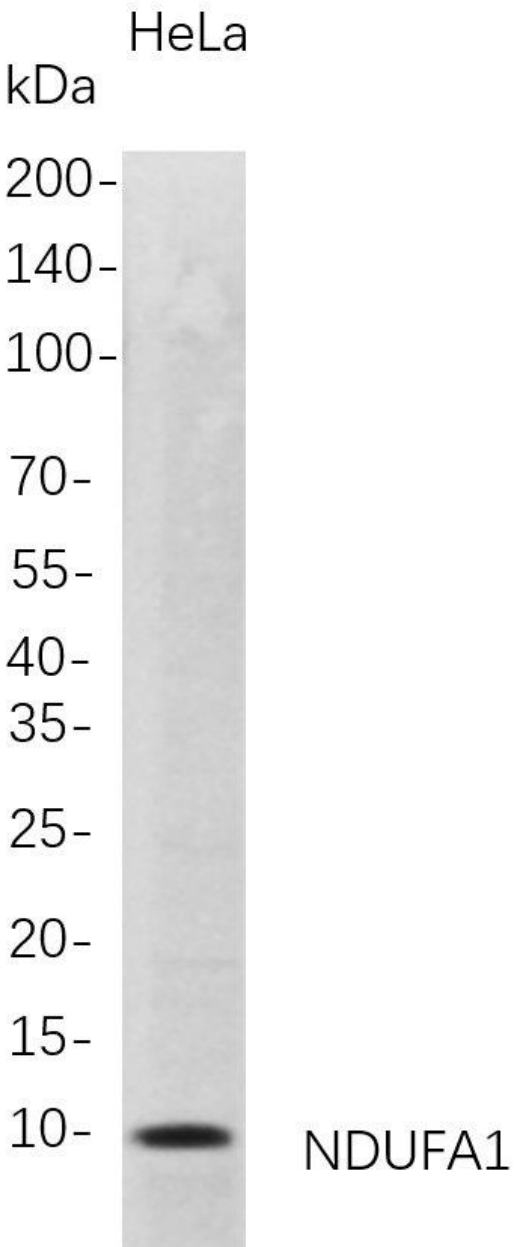
NDUFA1 Rabbit mAb

Catalog No	YP-rAb-17695
Isotype	IgG
Reactivity	Human
Applications	WB,IHC,IP
Gene Name	NDUFA1
Protein Name	NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 1;Complex I-MWFE;CI-MWFE;NADH-ubiquinone oxidoreductase MWFE subunit;
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	WB 1:1000-5000; IHC 1:100-300; IP 1:50-100 Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	NDUFA1 ; NADH dehydrogenase [ubiquinone] 1 alpha subcomplex subunit 1 ; Complex I-MWFE ; CI-MWFE ; NADH-ubiquinone oxidoreductase MWFE subunit ;
Observed Band	8kD
Calculated Molecular Weight	
Cell Pathway	Mitochondrion inner membrane; Single-pass membrane protein; Matrix side.
Tissue Specificity	Primarily expressed in heart and skeletal muscle.
Function	Accessory subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), that is believed not to be involved in catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone. {ECO:0000269|PubMed:27626371}.
Background	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, Jul 2008],

matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Western Blot analysis of HeLa whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-NDUFA1 rabbit mAb. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody.