

## NDUFA1

**Reactivity:** Human Mouse Rat

**Tested applications:** WB

**Recommended Dilution:** WB 1:500 - 1:2000

**Calculated MW:** 8kDa

**Observed MW:** Refer to figures

**Immunogen:**

Recombinant protein of human NDUFA1

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Synonym:**

MWFE; ZNF183; CI-MWFE;

**Catalog #:** A8326

**Antibody Type:**

Polyclonal Antibody

**Species:** Rabbit

**Gene ID:** 4694

**Isotype:** IgG

**Swiss Prot:** O15239

**Purity:** Affinity purification

For research use only.

**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.

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