

## Product datasheet for **TA358767**

### NDUFA1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	<b>Expected reactivity:</b> Cow, Horse, Human, Mouse, Pig, Rabbit, Rat, Sheep <b>Homology:</b> Cow: 85%; Horse: 86%; Human: 100%; Mouse: 92%; Pig: 92%; Rabbit: 79%; Rat: 92%; Sheep: 85%
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose. <i>Note that this product is shipped as lyophilized powder to China customers.</i>
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	8kDa
Gene Name:	NADH:ubiquinone oxidoreductase subunit A1
Database Link:	<a href="#">NP_004532</a> <a href="#">Entrez Gene 4694 Human</a> <a href="#">O15239</a>



[View online »](#)

**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.

**Synonyms:**

CI-MWFE; MWFE; ZNF183

**Protein Families:**

Transmembrane

**Protein Pathways:**

Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

**Product images:**

WB Suggested Anti-NDUFA1 Antibody  
Titration: 1.0 ug/ml  
Positive Control: Fetal kidney