

## Product datasheet for **TA350206**

### NDUFA1 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: 293T cell, Mouse brain tissue, Mouse heart tissue, Rat skeletal muscle tissue lysates IHC: 100-300 Positive control: Human breast cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein of human NDUFA1
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	8 kDa
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>



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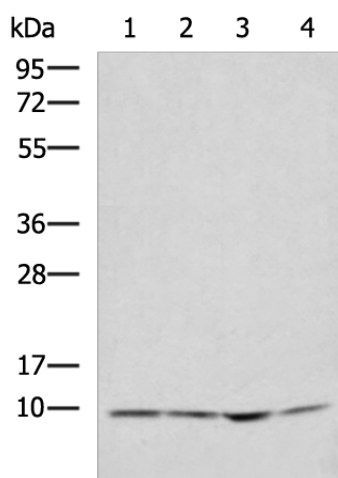
**Background:** The human NDUFA1 gene codes for an essential component of complex I of the respiratory chain, which transfers electrons from NADH to ubiquinone. It has been noted that the N-terminal hydrophobic domain has the potential to be folded into an alpha-helix spanning the inner mitochondrial 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.

**Synonyms:** CI-MWFE; MWFE; ZNF183

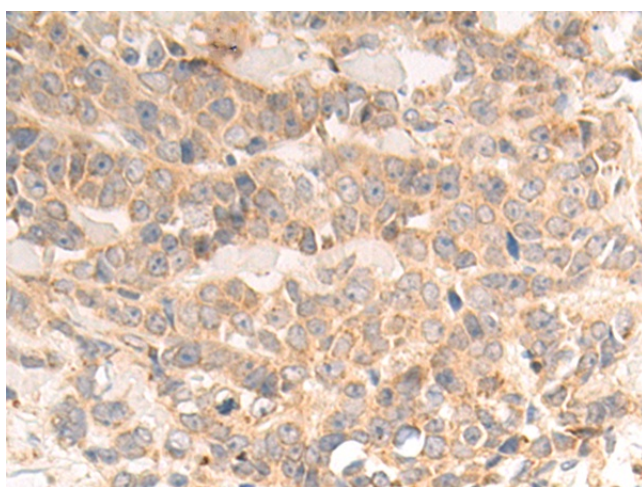
**Protein Families:** Transmembrane

**Protein Pathways:** Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

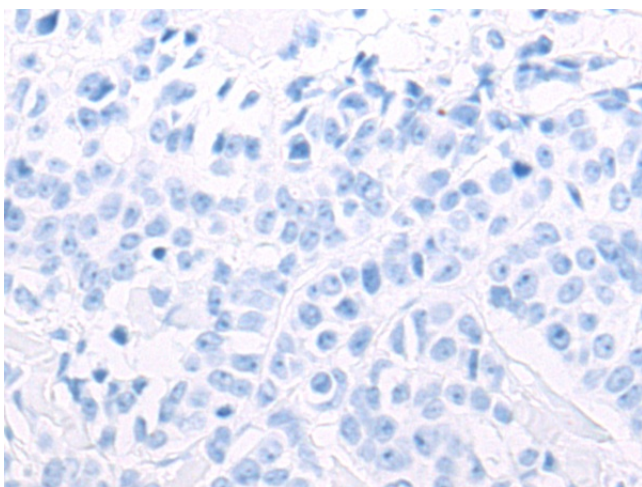
### Product images:



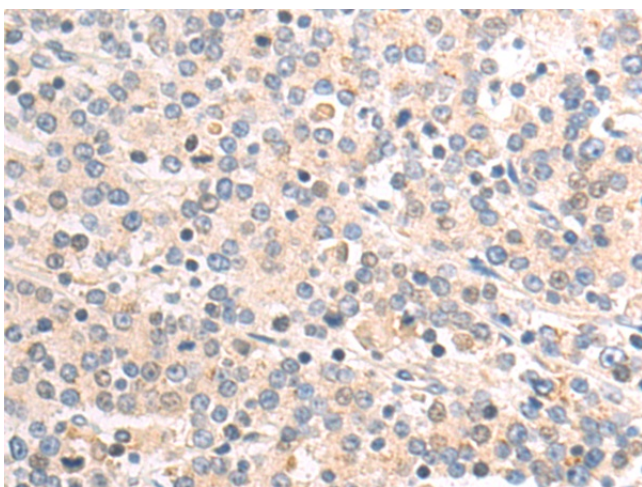
Gel: 12%SDS-PAGE  
Lysate: 40 µg  
Lane 1-4: 293T cell  
Mouse brain tissue  
Mouse heart tissue  
Rat skeletal muscle tissue lysates  
Primary antibody: TA350206 (NDUFA1 Antibody) at dilution 1/800  
Secondary antibody: Goat anti rabbit IgG at 1/5000 dilution  
Exposure time: 40 seconds



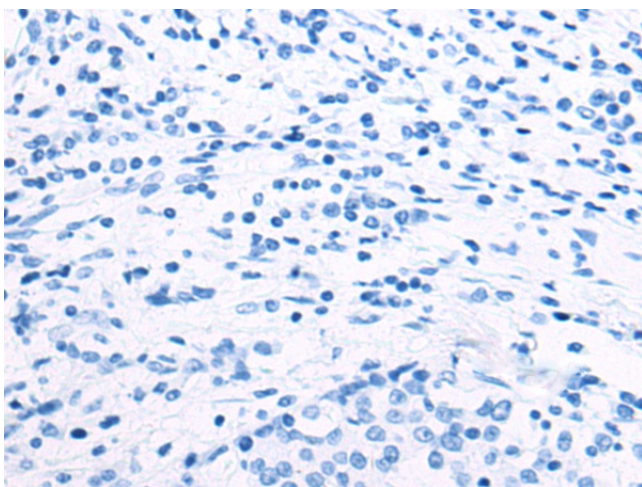
Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA350206 (NDUFA1 Antibody) at dilution 1/100 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human breast cancer tissue using TA350206 (NDUFA1 Antibody) at dilution 1/100, treated with fusion protein. (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using TA350206 (NDUFA1 Antibody) at dilution 1/100 (Original magnification:  $\times 200$ )



Immunohistochemistry of paraffin-embedded Human gastric cancer tissue using TA350206 (NDUFA1 Antibody) at dilution 1/100, treated with fusion protein. (Original magnification:  $\times 200$ )