

## Product datasheet for **TA351433S**

### NDUFS2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	WB: 500-2000 WB positive control: Mouse heart and brain tissue, Jurkat cells IHC: 50-200 Positive control: Human ovarian cancer Predicted cell location: Cytoplasm
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Synthetic peptide of human NDUFS2
Formulation:	pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol
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:	53 kDa
Gene Name:	NADH:ubiquinone oxidoreductase core subunit S2
Database Link:	<a href="#">NP_004541</a> <a href="#">Entrez Gene 226646</a> <a href="#">MouseEntrez Gene 289218</a> <a href="#">RatEntrez Gene 4720</a> <a href="#">Human O75306</a>



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**Background:**

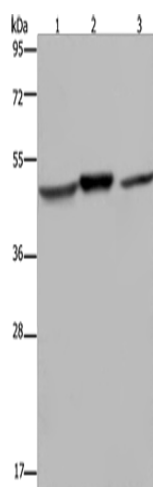
The protein encoded by this gene is a core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (complex I). Mammalian mitochondrial complex I is composed of at least 43 different subunits, 7 of which are encoded by the mitochondrial genome, and the rest are the products of nuclear genes. The iron-sulfur protein fraction of complex I is made up of 7 subunits, including this gene product. Complex I catalyzes the NADH oxidation with concomitant ubiquinone reduction and proton ejection out of the mitochondria. Mutations in this gene are associated with mitochondrial complex I deficiency. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

**Synonyms:**

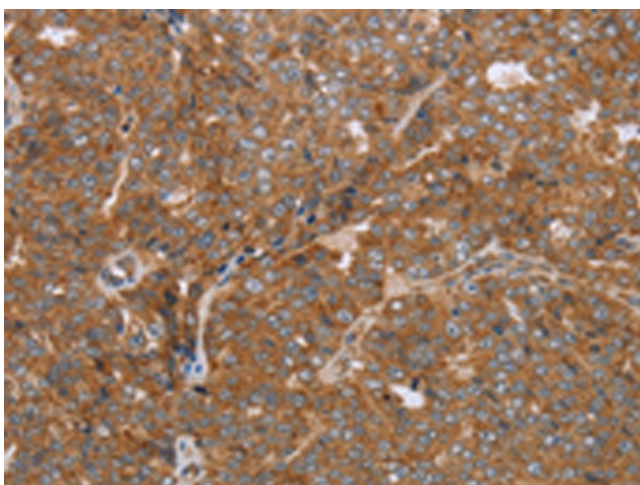
CI-49

**Protein Pathways:**

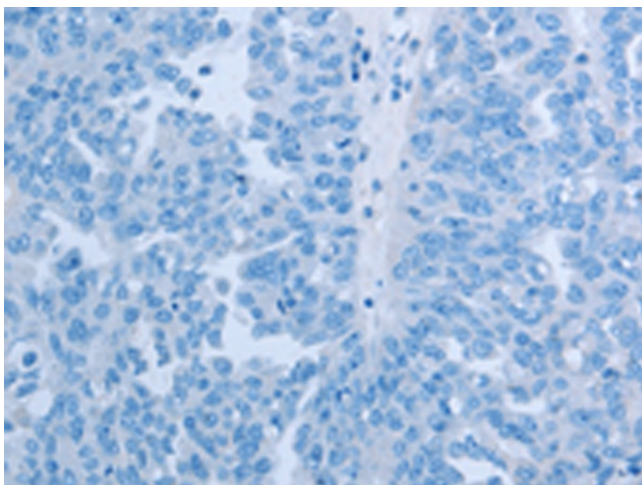
Alzheimer's disease, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

**Product images:**


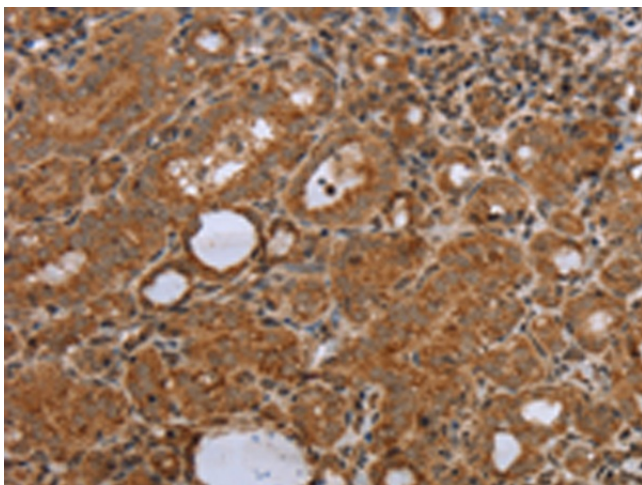
Gel: 8%SDS-PAGE  
 Lysate: 40 µg  
 Lane 1-3: Mouse heart tissue  
 Mouse brain tissue  
 Jurkat cells  
 Primary antibody: [TA351433] (NDUFS2 Antibody)  
 at dilution 1/400  
 Secondary antibody: Goat anti rabbit IgG at  
 1/8000 dilution  
 Exposure time: 20 seconds



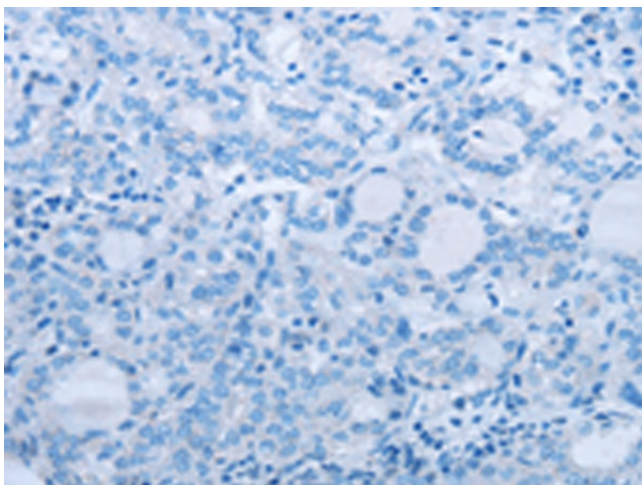
Immunohistochemistry of paraffin-embedded  
 Human ovarian cancer tissue using [TA351433]  
 (NDUFS2 Antibody) at dilution 1/50 (Original  
 magnification: ×200)



Immunohistochemistry of paraffin-embedded Human ovarian cancer tissue using [TA351433] (NDUFS2 Antibody) at dilution 1/50, treated with synthetic peptide. (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA351433] (NDUFS2 Antibody) at dilution 1/50 (Original magnification: ×200)



Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using [TA351433] (NDUFS2 Antibody) at dilution 1/50, treated with synthetic peptide. (Original magnification: ×200)