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Product datasheet for CF802325

NDUFS2 Mouse Monoclonal Antibody [Clone ID: OTI2G2]

Product data:

Product Type:	Primary Antibodies
Clone Name:	OTI2G2
Applications:	IHC, WB
Recommended Dilution:	WB 1:2000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human recombinant protein fragment corresponding to amino acids 205-463 of human NDUFS2 (NP_004541) produced in E.coli.
Formulation:	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
Reconstitution Method:	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
Purification:	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	49.1 kDa
Gene Name:	NADH:ubiquinone oxidoreductase core subunit S2
Database Link:	NP_004541 Entrez Gene 226646 MouseEntrez Gene 289218 RatEntrez Gene 4720 Human O75306

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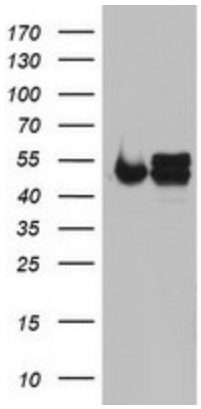
Background: The protein encoded by this gene is a core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (complex I). Mammalian mitochondrial complex I is composed of at least 43 different subunits, 7 of which are encoded by the mitochondrial genome, and the rest are the products 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. [provided by RefSeq, Oct 2009]

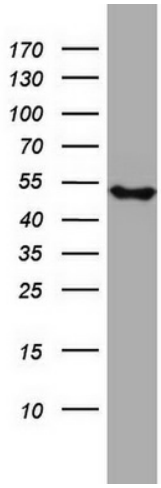
Synonyms: CI-49

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

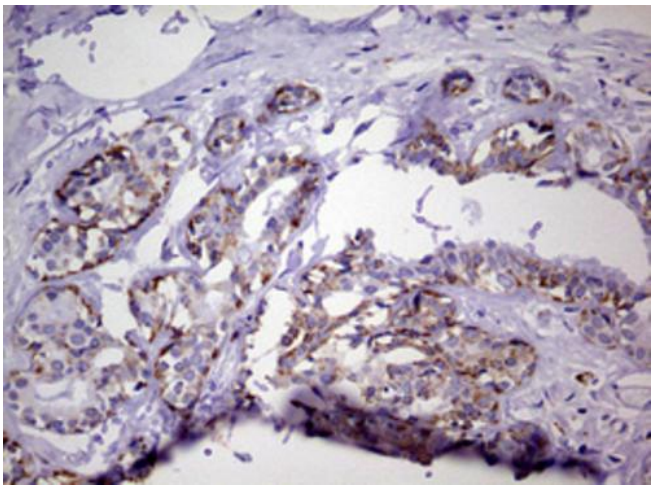
Product images:



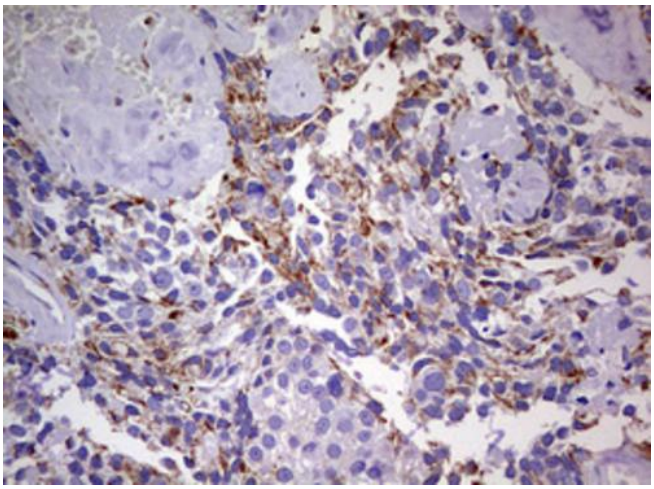
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY NDUFS2 ([RC203485], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NDUFS2. Positive lysates [LY417919] (100ug) and [LC417919] (20ug) can be purchased separately from OriGene.



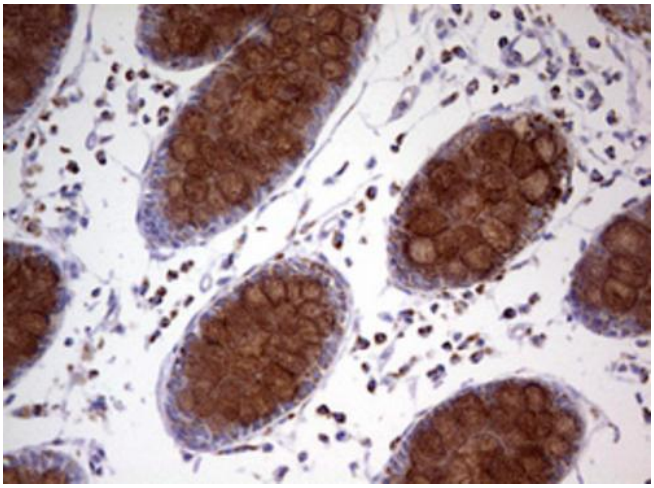
Western blot analysis of A549 cell lysate (35ug) by using anti-NDUFS2 monoclonal antibody. Dilution: 1:500



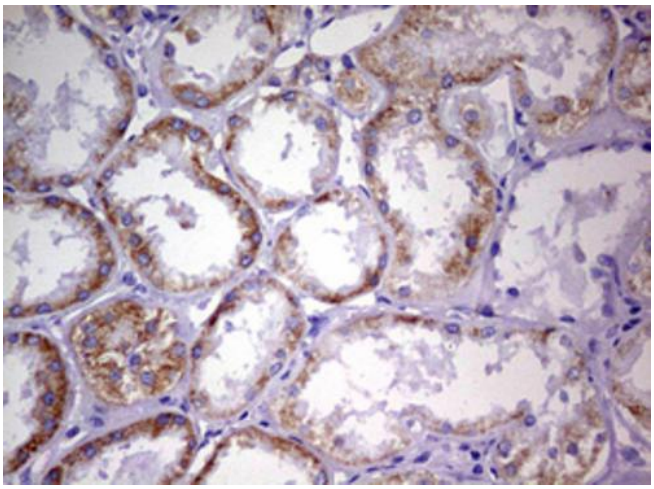
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-NDUFS2 mouse monoclonal antibody. ([TA802325]) Dilution: 1:150



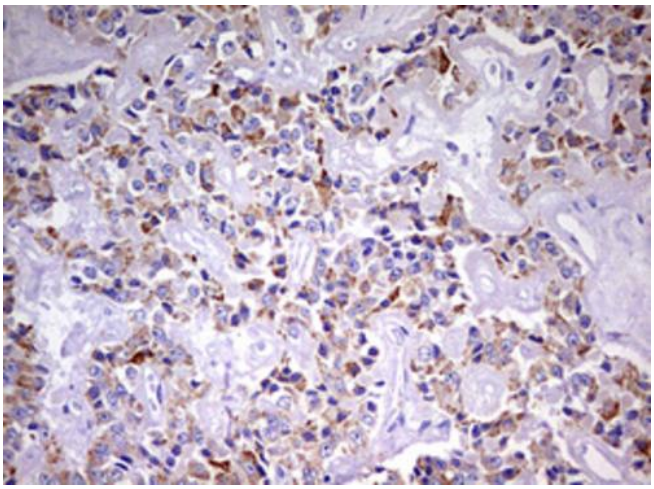
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-NDUFS2 mouse monoclonal antibody. ([TA802325]) Dilution: 1:150



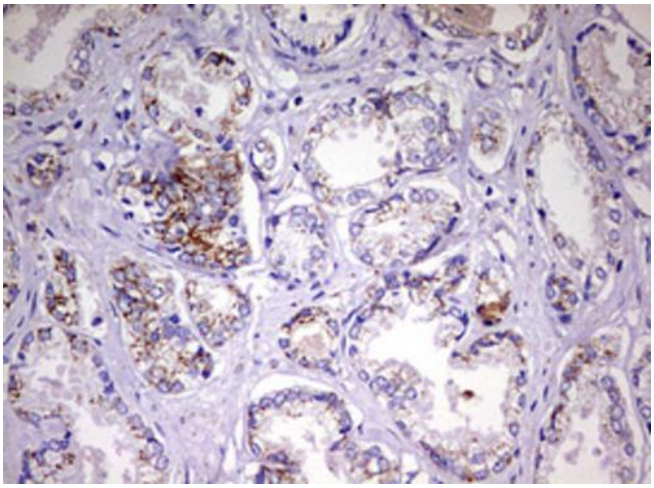
Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-NDUFS2 mouse monoclonal antibody. ([TA802325]) Dilution: 1:150



Immunohistochemical staining of paraffin-embedded Human Kidney tissue within the normal limits using anti-NDUFS2 mouse monoclonal antibody. ([TA802325]) Dilution: 1:150



Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-NDUFS2 mouse monoclonal antibody. ([TA802325]) Dilution: 1:150



Immunohistochemical staining of paraffin-embedded Carcinoma of Human prostate tissue using anti-NDUFS2 mouse monoclonal antibody. ([TA802325]) Dilution: 1:150