

ARG65574 anti-NDUFS2 antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes NDUFS2
Tested Reactivity	Hu, Ms
Tested Application	IHC-P, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	NDUFS2
Species	Human
Immunogen	Synthetic peptide of human NDUFS2
Conjugation	Un-conjugated
Alternate Names	Complex I-49kD; CI-49kD; CI-49; NADH-ubiquinone oxidoreductase 49 kDa subunit; EC 1.6.99.3; NADH dehydrogenase [ubiquinone] iron-sulfur protein 2, mitochondrial; EC 1.6.5.3

Application Instructions

Application table	Application	Dilution
	IHC-P	50-200
	WB	500-2000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Mouse heart and brain tissue, Jurkat cell	

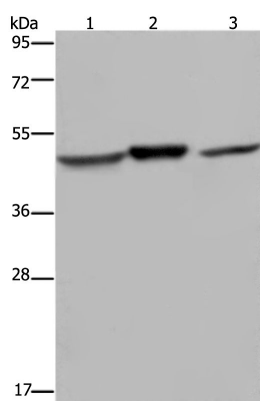
Properties

Form	Liquid
Purification	Purified by antigen-affinity chromatography.
Buffer	1XPBS (pH 7.4), 0.05% Sodium azide and 40% Glycerol
Preservative	0.05% Sodium azide
Stabilizer	40% Glycerol
Concentration	3.1 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

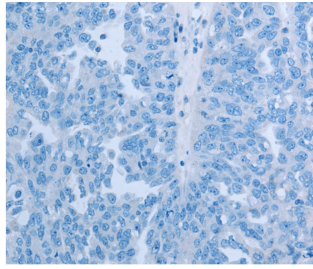
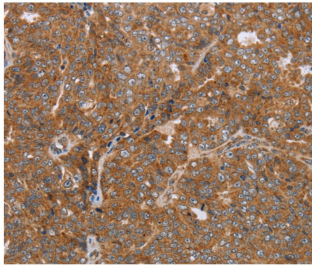
Database links	GeneID: 226646 Mouse GeneID: 4720 Human Swiss-port # O75306 Human Swiss-port # Q91WD5 Mouse
Gene Symbol	NDUFS2
Gene Full Name	NADH dehydrogenase (ubiquinone) Fe-S protein 2, 49kDa (NADH-coenzyme Q reductase)
Background	The protein encoded by this gene is a core subunit of the mitochondrial 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.
Function	Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone (By similarity). [UniProt]
Highlight	Related products: NDUFS2 antibodies: Anti-Rabbit IgG secondary antibodies: Related poster download: The Structure & Functions of Mitochondria.pdf
Research Area	Cancer antibody; Cell Biology and Cellular Response antibody; Controls and Markers antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	53 kDa
PTM	Dimethylation at Arg-118 by NDUFAF7 takes place after NDUFS2 assembles into the complex I, leading to stabilize the early intermediate complex (PubMed:24089531, PubMed:24838397).

Images



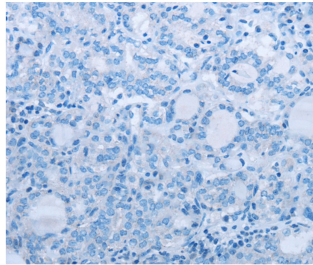
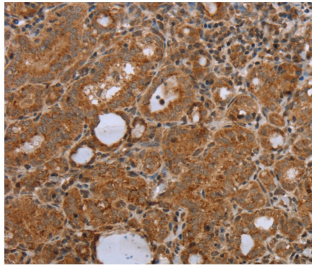
ARG65574 anti-NDUFS2 antibody WB image

Western blot: 40 µg of 1) Mouse heart, 2) Mouse brain and 3) Jurkat lysates stained with ARG65574 anti-NDUFS2 antibody at 1:400 dilution. Exposure time: 20 seconds.



ARG65574 anti-NDUFS2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human ovarian cancer tissue stained with ARG65574 anti-NDUFS2 antibody (left) at 1:50 dilution, or the same antibody preincubated with synthetic peptide (right). (Original magnification: $\times 200$).



ARG65574 anti-NDUFS2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human ovarian cancer tissue stained with ARG65574 anti-NDUFS2 antibody (left) at 1:50 dilution, or the same antibody preincubated with synthetic peptide (right). (Original magnification: $\times 200$).