

Product Name: KD-Validated NDUFA13 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA00983

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 16.7kDa

Antigen Information

Gene Name	NDUFA13 NADH:Ubiquinone Oxidoreductase Subunit A13; GRIM-19; GRIM19; CGI-39; CDA016; B16.6; Gene Associated With Retinoic And Interferon-Induced Mortality 19 Protein; Gene Associated With Retinoic And IFN-Induced Mortality 19 Protein; NADH Dehydrogenase
Alternative Names	[Ubiquinone] 1 Alpha Subcomplex Subunit 13; NADH Dehydrogenase (Ubiquinone) 1 Alpha Subcomplex, 13; NADH-Ubiquinone Oxidoreductase B16.6 Subunit; Cell Death Regulatory Protein GRIM-19; Complex I B16.6 Subunit; Complex I-B16.6; CI-B16.6; Cell Death-Regulatory Protein GRIM19; MC1DN28
Gene ID	51079.0
SwissProt ID	Q9P0J0
Immunogen	A synthesized peptide derived from human GRIM19

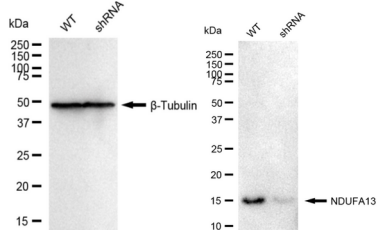
Background

This gene encodes a subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), which functions in the transfer of electrons from NADH to the respiratory chain. The protein is required for complex I assembly and electron transfer activity. The protein binds the signal transducers and activators of transcription 3 (STAT3) transcription factor, and can function as a tumor suppressor. The human protein purified from mitochondria migrates at approximately 16 kDa. Transcripts originating from an upstream promoter and capable of expressing a protein with a longer N-terminus have been found, but their biological validity has not been determined. [provided by RefSeq, Oct 2009]

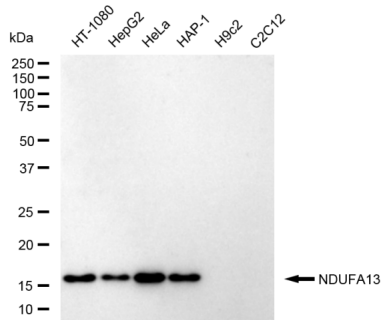
Research Area

Cell Biology, Epigenetics and Nuclear Signaling, Cancer, Metabolism

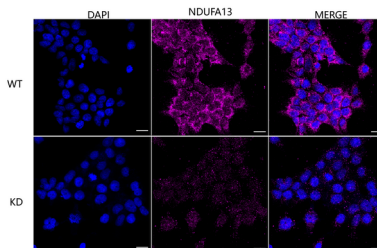
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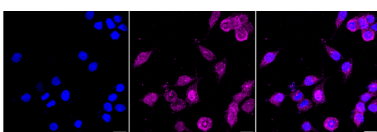
Western blotting analysis using NDUFA13 antibody (KVA00983). NDUFA13 expression in wild type (WT) and NDUFA13 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with NDUFA13 antibody (KVA00983, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using NDUFA13 antibody (KVA00983). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NDUFA13 antibody (KVA00983, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HeLa cells using NDUFA13 antibody (KVA00983, 1:1,000). Top panel: wild-type (WT); Bottom panel: NDUFA13 shRNA knockdown (KD). Nuclei were stained blue with DAPI; NDUFA13 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HeLa cells with NDUFA13 antibody (KVA00983, 1:1,000). Nuclei were stained blue with DAPI; NDUFA13 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar: 20 µm.