

Product Name: KD-Validated NDUFS3 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVA01753

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,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; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 30.2kDa

Antigen Information

Gene Name	NDUFS3
Alternative Names	NDUFS3; NADH:Ubiquinone Oxidoreductase Core Subunit S3; NADH Dehydrogenase [Ubiquinone] Iron-Sulfur Protein 3, Mitochondrial; CI-30; NADH Dehydrogenase (Ubiquinone) Fe-S Protein 3, 30kDa (NADH-Coenzyme Q Reductase); NADH-Ubiquinone Oxidoreductase 30 KDa Subunit; Complex I 30kDa Subunit; Complex I-30kD; CI-30kD; NADH Dehydrogenase (Ubiquinone) Fe-S Protein 3 (30kD) (NADH-Coenzyme Q Reductase); NADH Dehydrogenase-Ubiquinone 30 KDa Subunit; EC 1.6.99.5; EC 7.1.1.2; MC1DN8
Gene ID	4722.0
SwissProt ID	O75489
Immunogen	A synthesized peptide derived from human NDUFS3

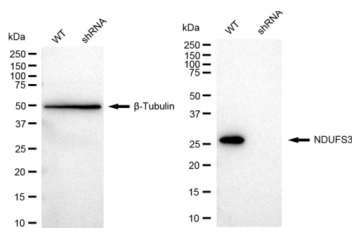
Background

This gene encodes one of the iron-sulfur protein (IP) components of mitochondrial NADH:ubiquinone oxidoreductase (complex I). Mutations in this gene are associated with Leigh syndrome resulting from mitochondrial complex I deficiency. [provided by RefSeq, Apr 2009]

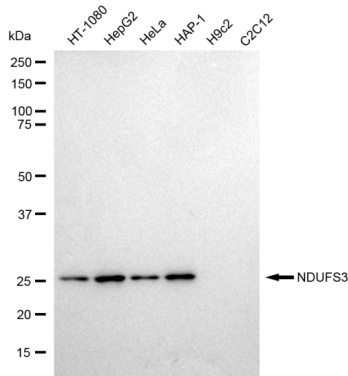
Research Area

Signal Transduction, Cell Biology, Cancer, Metabolism

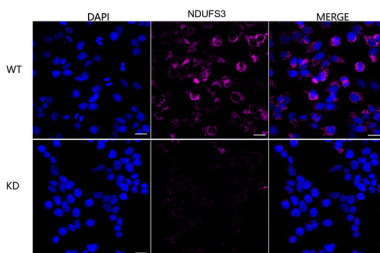
Image Data



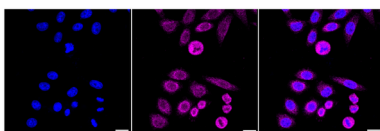
Western blotting analysis using NDUF3 antibody (KVA01753). NDUF3 expression in wild type (WT) and NDUF3 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with NDUF3 antibody (KVA01753, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



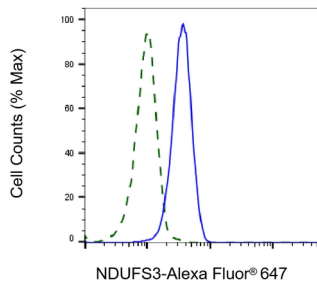
Western blotting analysis using NDUF3 antibody (KVA01753). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NDUF3 antibody (KVA01753, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



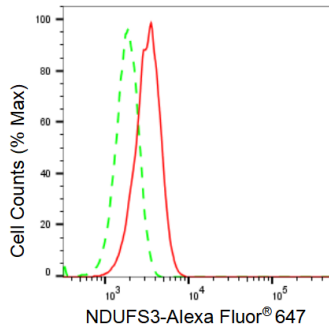
Immunocytochemical staining of HeLa cells using NDUF3 antibody (KVA01753, 1:1,000), Top panel: wild-type (WT); Bottom panel: NDUF3 shRNA knockdown (KD). Nuclei were stained blue with DAPI; NDUF3 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of HepG2 cells with NDUF3 antibody (KVA01753, 1:1,000). Nuclei were stained blue with DAPI; NDUF3 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.



Validation of NDUF3 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with NDUF3 antibody (KVA01753, 1:2,000) and analyzed using CytoFLEX.



Flow cytometric analysis of NDUF3 expression in HepG2 cells using NDUF3 antibody (KVA01753, 1:2,000). Green, isotype control; red, NDUF3.