

Product Name: KD-Validated NDUFB10 Mouse Monoclonal Antibody**Catalog #: KVA00516**

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Mouse
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Mouse IgG1
Clonality	Mouse 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 1:400-1:2,000; FC 1:100-1:1,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 20.8kDa

Antigen Information

Gene Name	NDUFB10
Alternative Names	NDUFB10; NADH:Ubiquinone Oxidoreductase Subunit B10; PDSW; NADH Dehydrogenase (Ubiquinone) 1 Beta Subcomplex, 10, 22kDa; NADH Dehydrogenase [Ubiquinone] 1 Beta Subcomplex Subunit 10; NADH-Ubiquinone Oxidoreductase PDSW Subunit; Complex I PDSW Subunit; Complex I-PDSW; CI-PDSW; NADH Dehydrogenase (Ubiquinone) 1 Beta Subcomplex, 10 (22kD, PDSW); NADH Ubiquinone Oxidoreductase PDSW Subunit (RH 16p13.3); MC1DN35
Gene ID	4716.0
SwissProt ID	O96000
Immunogen	Recombinant protein of human NDUFB10

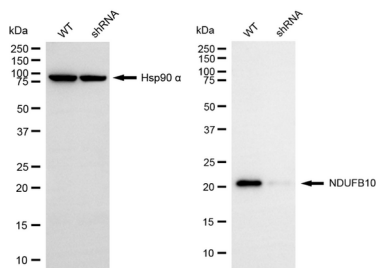
Background

Predicted to enable NADH dehydrogenase (ubiquinone) activity. Predicted to be involved in mitochondrial electron transport, NADH to ubiquinone and proton motive force-driven mitochondrial ATP synthesis. Located in mitochondrial inner membrane. Part of respiratory chain complex I. Implicated in nuclear type mitochondrial complex I deficiency 35. [provided by Alliance of Genome Resources, Jul 2025]

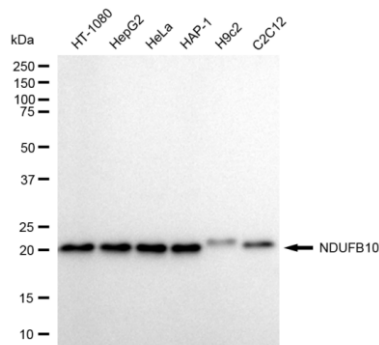
Research Area

Cardiovascular, Neuroscience

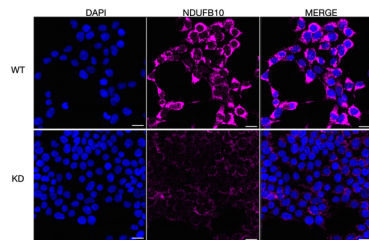
Image Data



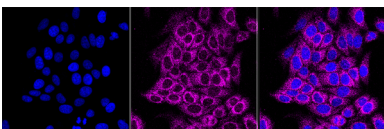
Western blotting analysis using NDUF B10 antibody (KVA b00516). NDUF B10 expression in wild type (WT) and NDUF B10 shRNA knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with NDUF B10 antibody (KVA b00516, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



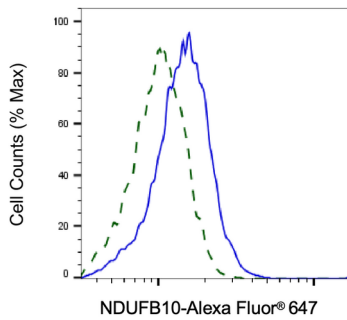
Western blotting analysis using NDUF B10 antibody (KVA b00516). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with NDUF B10 antibody (KVA b00516, 1:2,000) and HRP-conjugated goat anti-mouse secondary antibody (APS0631, 1:10,000) respectively.



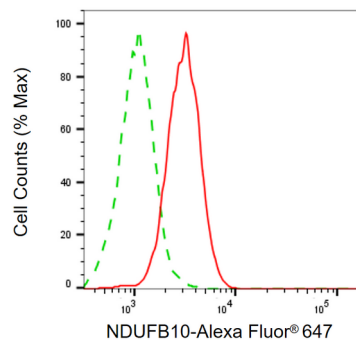
Immunocytochemical staining of HeLa cells using NDUF B10 antibody (KVA b00516, 1:1,000), Top panel: wild-type (WT); Bottom panel: NDUF B10 shRNA knockdown (KD). Nuclei were stained blue with DAPI; NDUF B10 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm.



Immunocytochemical staining of HepG2 cells with NDUF B10 antibody (KVA b00516, 1:1,000). Nuclei were stained blue with DAPI; NDUF B10 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Low. Scale bar, 20 µm.



Validation of NDUFB10 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with NDUFB10 antibody (KVA00516, 1:2,000) and analyzed using BD flow cytometer.



Flow cytometric analysis of NDUFB10 expression in HepG2 cells using NDUFB10 antibody (KVA00516, 1:1,000). Green, isotype control; red, NDUFB10.