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KD-Validated Anti-NDUFS3 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1071

Specification

KD-Validated Anti-NDUFS3 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	O75489
Reactivity	**Human**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 30 kDa, observed, 26 kDa KDa**
Gene Name	**NDUFS3**
Aliases	**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**
Immunogen	**A synthesized peptide derived from human NDUFS3**

KD-Validated Anti-NDUFS3 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**4722**

Other Names
NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondrial, 7.1.1.2, Complex I-30kD, CI-30kD, NADH-ubiquinone oxidoreductase 30 kDa subunit, NDUFS3

KD-Validated Anti-NDUFS3 Rabbit Monoclonal Antibody - Protein Information

Name NDUFS3

Function
Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) which catalyzes electron transfer from NADH through the respiratory chain, using ubiquinone as an electron acceptor (PubMed:14729820, PubMed:30140060). Essential for the catalytic activity and assembly of complex I (PubMed:14729820, PubMed:24028823,

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PubMed:30140060).

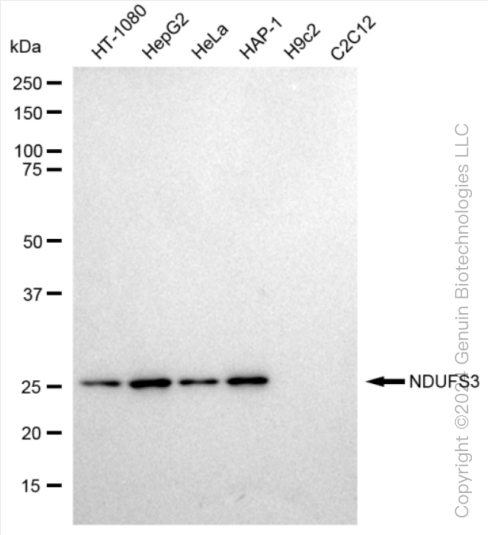
Cellular Location
Mitochondrion inner membrane; Peripheral membrane protein; Matrix side

KD-Validated Anti-NDUFS3 Rabbit Monoclonal Antibody - Protocols

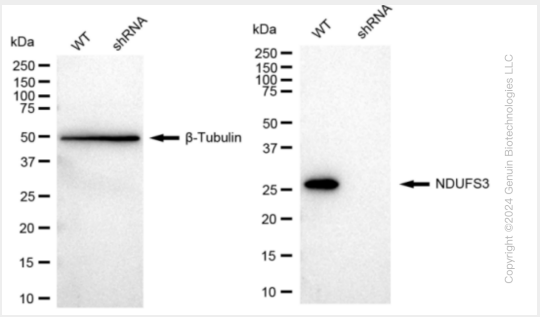
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-NDUFS3 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-NDUFS3 antibody (Cat#AGI1071). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-NDUFS3 antibody (Cat#AGI1071, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-NDUFS3 antibody (Cat#AGI1071). NDUFS3 expression in wild type (WT) and NDUFS3 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates.

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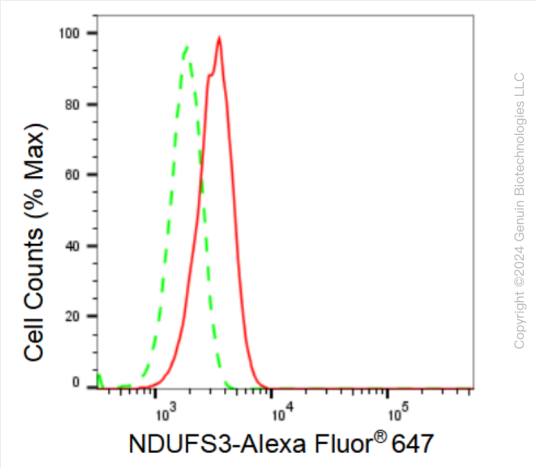
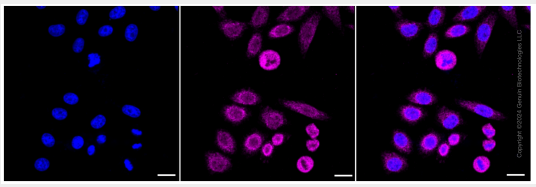
β-Tubulin serves as a loading control. The blot was incubated with anti-NDUFS3 antibody (Cat#AGI1071, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of NDUFS3 expression in HepG2 cells using NDUFS3 antibody (Cat#AGI1071, 1:2,000). Green, isotype control; red, NDUFS3.



Immunocytochemical staining of HepG2 cells with NDUFS3 antibody (Cat#AGI1071, 1:1,000). Nuclei were stained blue with DAPI; NDUFS3 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.