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# NDUFAF2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP13341c

## Product Information

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| **Application** | WB, IHC-P, E |
| **Primary Accession** | Q8N183 |
| **Other Accession** | NP_777549.1 |
| **Reactivity** | Human |
| **Predicted** | Mouse, Rat, Canine |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB33463 |
| **Calculated MW** | 19856 |
| **Antigen Region** | 71-99 |

## Additional Information

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| **Gene ID** | 91942 |
| **Other Names** | Mimitin, mitochondrial, B172-like, B172L, Myc-induced mitochondrial protein, MMTN, NADH dehydrogenase [ubiquinone] 1 alpha subcomplex assembly factor 2, NDUFA12-like protein, NDUFAF2, NDUFA12L |
| **Target/Specificity** | This NDUFAF2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 71-99 amino acids from the Central region of human NDUFAF2. |
| **Dilution** | WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration. |
| **Format** | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| **Storage** | Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| **Precautions** | NDUFAF2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | NDUFAF2 |
| **Synonyms** | NDUFA12L |

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| **Function** | Acts as a molecular chaperone for mitochondrial complex I assembly (PubMed:16200211, PubMed:19384974). 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 (PubMed:16200211, PubMed:27626371). Is involved in the initial steps of cilia formation, including removal of CP110 from the mother centrioles, docking of membrane vesicles to the mother centrioles, and establishment of the transition zone (PubMed:38949024). |
| **Cellular Location** | Mitochondrion. |
| **Tissue Location** | Highly expressed in ESCC cells. Also expressed in heart, skeletal muscle, liver, and in fibroblasts |

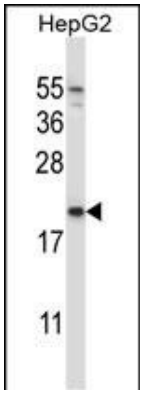
## Background

NADH:ubiquinone oxidoreductase (complex I) catalyzes the transfer of electrons from NADH to ubiquinone (coenzyme Q) in the first step of the mitochondrial respiratory chain, resulting in the translocation of protons across the inner mitochondrial membrane. This gene encodes a complex I assembly factor. Mutations in this gene cause progressive encephalopathy resulting from mitochondrial complex I deficiency.

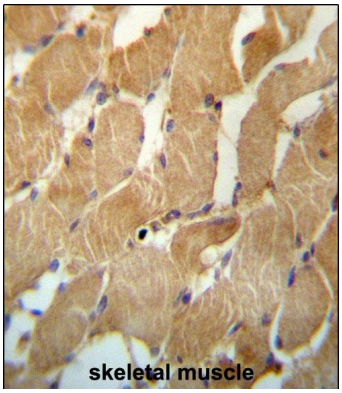
## References


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Herzer, M., et al. Neuropediatrics 41(1):30-34(2010)
Hoefs, S.J., et al. Hum. Mutat. 30 (7), E728-E736 (2009) :
Wang, L., et al. Cancer Epidemiol. Biomarkers Prev. 17(12):3558-3566(2008)


## Images




NDUFAF2 Antibody (Center) (Cat. #AP13341c) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the NDUFAF2 antibody detected the NDUFAF2 protein (arrow).




NDUFAF2 Antibody (Center) (Cat. #AP13341c)immunohistochemistry analysis in formalin fixed and paraffin embedded human skeletal muscle followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of NDUFAF2 Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.