

Goat Anti-NDUFS3 Antibody
Peptide-affinity purified goat antibody
Catalog # AF1713a**Specification**

Goat Anti-NDUFS3 Antibody - Product Information

Application	WB
Primary Accession	O75489
Other Accession	NP_004542 , 4722
Reactivity	Human
Predicted	Cow
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	30242

Goat Anti-NDUFS3 Antibody - Additional Information**Gene ID** 4722**Other Names**

NADH dehydrogenase [ubiquinone] iron-sulfur protein 3, mitochondrial, 1.6.5.3, 1.6.99.3, Complex I-30kD, CI-30kD, NADH-ubiquinone oxidoreductase 30 kDa subunit, NDUFS3

Format

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Goat Anti-NDUFS3 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Goat Anti-NDUFS3 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: <http://www.uniprot.org/citations/14729820> target="_blank">14729820, PubMed: <http://www.uniprot.org/citations/30140060> target="_blank">30140060). Essential for the catalytic activity and assembly of complex I

(PubMed:14729820,
PubMed:24028823,
PubMed:30140060).

Cellular Location

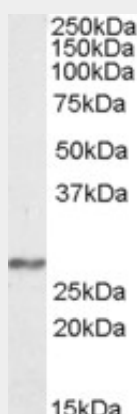
Mitochondrion inner membrane; Peripheral membrane protein; Matrix side

Goat Anti-NDUFS3 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 Cytometry](#)
- [Cell Culture](#)

Goat Anti-NDUFS3 Antibody - Images



AF1713a (0.3 µg/ml) staining of Human Frontal Cortex lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Goat Anti-NDUFS3 Antibody - 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.

Goat Anti-NDUFS3 Antibody - References

Mutations in NDUFAF3 (C3ORF60), encoding an NDUFAF4 (C6ORF66)-interacting complex I assembly protein, cause fatal neonatal mitochondrial disease. Saada A, et al. Am J Hum Genet, 2009 Jun. PMID 19463981.

Association study between single-nucleotide polymorphisms in 199 drug-related genes and commonly measured quantitative traits of 752 healthy Japanese subjects. Saito A, et al. J Hum Genet, 2009 Jun. PMID 19343046.

Alterations in oligodendrocyte proteins, calcium homeostasis and new potential markers in schizophrenia anterior temporal lobe are revealed by shotgun proteome analysis. Martins-de-Souza

D, et al. J Neural Transm, 2009 Mar. PMID 19034380.

Oxidative stress, telomere length and biomarkers of physical aging in a cohort aged 79 years from the 1932 Scottish Mental Survey. Starr JM, et al. Mech Ageing Dev, 2008 Dec. PMID 18977241.

Granzyme A cleaves a mitochondrial complex I protein to initiate caspase-independent cell death.

Martinvalet D, et al. Cell, 2008 May 16. PMID 18485875.