

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
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: [14729820](http://www.uniprot.org/citations/14729820), PubMed: [30140060](http://www.uniprot.org/citations/30140060)). Essential for the catalytic activity and assembly of complex I (PubMed: [14729820](http://www.uniprot.org/citations/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.