abcam

Product datasheet

Anti-MT-ND3 antibody ab192306

1 Abreviews 5 References 1 Image

Overview

Product name	Anti-MT-ND3 antibody
Description	Rabbit polyclonal to MT-ND3
Host species	Rabbit
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide corresponding to Human MT-ND3 aa 1-100. Database link: **P03897** Run BLAST with Run BLAST with
Positive control	HEK293T, RAW 264.7 and H9C2 cell lysates.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituent: 99% PBS
Purity	Immunogen affinity purified
Purification notes	ab192306 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab192306 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★☆ **(1)**	1/500 - 1/1000. Predicted molecular weight: 13 kDa.

Target

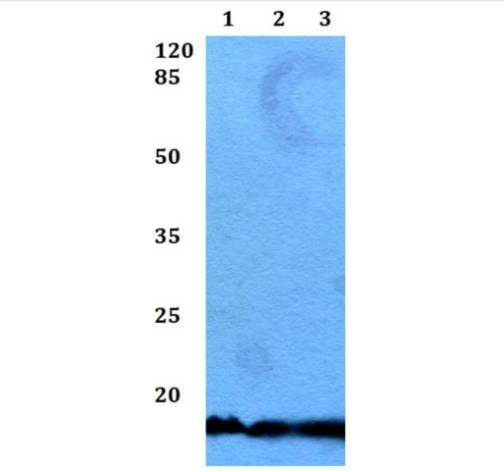
Function Core subunit of the mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I) that is believed to belong to the minimal assembly required for catalysis. Complex I functions in the transfer of electrons from NADH to the respiratory chain. The immediate electron acceptor for the enzyme is believed to be ubiquinone.

Involvement in disease Defects in MT-ND3 are a cause of Leigh syndrome (LS) [MIM:256000]. LS is a severe neurological disorder characterized by bilaterally symmetrical necrotic lesions in subcortical brain regions.
Defects in MT-ND3 are a cause of mitochondrial complex I deficiency (MT-C1D) [MIM:252010]. A disorder of the mitochondrial respiratory chain that causes a wide range of clinical disorders, from lethal neonatal disease to adult-onset neurodegenerative disorders. Phenotypes include macrocephaly with progressive leukodystrophy, non-specific encephalopathy, cardiomyopathy, myopathy, liver disease, Leigh syndrome, Leber hereditary optic neuropathy, and some forms of Parkinson disease.

Sequence similarities Belongs to the complex I subunit 3 family.

Cellular localization Mitochondrion membrane.

Images



Western blot - Anti-MT-ND3 antibody (ab192306)

All lanes : Anti-MT-ND3 antibody (ab192306)

Lane 1 : HEK293T whole cell lysate
Lane 2 : RAW 264.7 whole cell lysate
Lane 3 : H9C2 whole cell lysate

Predicted band size: 13 kDa

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