

Product datasheet

Anti-MT-ND3 antibody ab204977

2 Images

Overview

Product name	Anti-MT-ND3 antibody
Description	Rabbit polyclonal to MT-ND3
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, IHC-P
Species reactivity	Reacts with: Human
Immunogen	Recombinant fragment corresponding to Human MT-ND3 aa 29-54. Sequence: GYIEKSTPYECGFDPISPARVPFSIK Database link: P03897 <div style="float: right;"> Run BLAST with Run BLAST with </div>
Positive control	Human rectum tissue, MCF7 cells.

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: 0.02% Sodium azide Constituents: 40% Glycerol, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab204977** in the following tested applications.

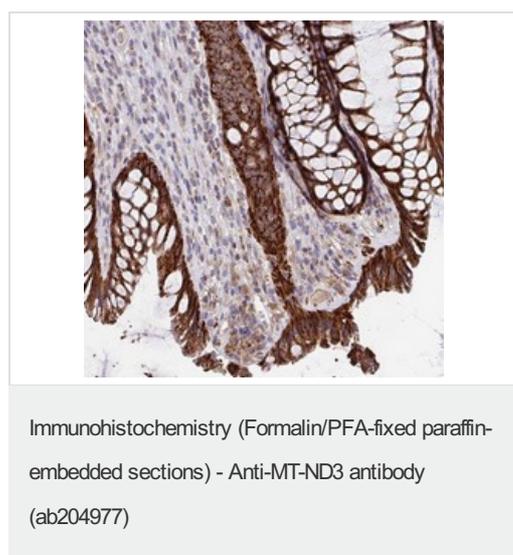
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use a concentration of 1 - 4 µg/ml.
IHC-P		1/20 - 1/50. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

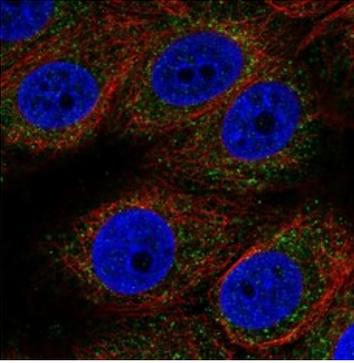
Target

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	<p>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.</p> <p>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.</p>
Sequence similarities	Belongs to the complex I subunit 3 family.
Cellular localization	Mitochondrion membrane.

Images



Immunohistochemical analysis of paraffin-embedded human rectum tissue labeling MT-ND3 using ab204977 at 1/20 dilution.



Immunofluorescence analysis of MCF7 cells
(Fixation/Permeabilization: PFA/Triton X-100) labeling MT-ND3
using ab204977 at 4 µg/mL.

Immunocytochemistry/ Immunofluorescence - Anti-
MT-ND3 antibody (ab204977)

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