abcam

Product datasheet

Anti-MT-ND5 antibody ab92624

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概述

产品名称	Anti-MT-ND5抗体
描述	**兔多克隆抗体**to MT-ND5
宿主	Rabbit
经测试应用	**适用于:** WB, ELISA, IHC-P
种属反应性	**与反应:** Human
免疫原	Synthetic peptide between 550~579 amino acids selected from the C terminal region of Human MT-ND5 conjugated to KLH.
阳性对照	WB: CEM cell lysate. IHC-P: Human normal cerebral cortex.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term.
存储溶液	Preservative: 0.09% Sodium azide Constituent: PBS
纯度	Immunogen affinity purified
纯化说明	Purified through a protein A column, followed by peptide affinity purification.
克隆	**多克隆**
同种型	IgG

应用

Our Abpromise guarantee covers the use of **ab92624** in the following tested applications.

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

应用	Ab评论	说明
WB		1/100 - 1/1000. Predicted molecular weight: 67 kDa.
ELISA		1/1000.

应用	Ab评论	说明
IHC-P		1/25 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

靶标

功能

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.

疾病相关

Defects in MT-ND5 are a cause of Leber hereditary optic neuropathy (LHON) [MIM:535000]. LHON is a maternally inherited disease resulting in acute or subacute loss of central vision, due to optic nerve dysfunction. Cardiac conduction defects and neurological defects have also been described in some patients. LHON results from primary mitochondrial DNA mutations affecting the respiratory chain complexes.
Defects in MT-ND5 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-ND5 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.
Defects in MT-ND5 are a cause of mitochondrial encephalomyopathy with lactic acidosis and stroke-like episodes syndrome (MELAS) [MIM:540000]. MELAS is a genetically heterogenious disorder, characterized by episodic vomiting, seizures, and recurrent cerebral insults resembling strokes and causing hemiparesis, hemianopsia, or cortical blindness.

序列相似性

Belongs to the complex I subunit 5 family.

细胞定位

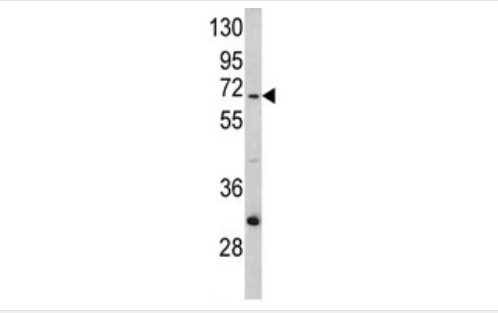
Mitochondrion inner membrane.

图片

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MT-ND5 antibody (ab92624)

IHC image of MT-ND5 staining in Human normal cerebral cortex formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab92624, 1µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



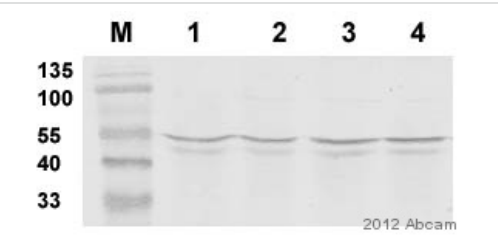
Western blot - Anti-MT-ND5 antibody (ab92624)

Anti-MT-ND5 antibody (ab92624) at 1/1000 dilution + CEM whole cell lysate at 35 µg

Secondary
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution

Predicted band size: 67 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-MT-ND5 antibody (ab92624)

Joseph Bateman, Kings College London, United Kingdom

All lanes : Anti-MT-ND5 antibody (ab92624) at 1/100 dilution

All lanes : Human Cerebral Cortex

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Donkey polyclonal to rabbit IgG conjugated to IRDye 800CW at 1/500 dilution

Performed under reducing conditions.

Predicted band size: 67 kDa

Exposure time: 5 minutes

Detection method: Odyssey system

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