

Datasheet for ABIN7603115

anti-Mitochondrially Encoded NADH Dehydrogenase 4 (MT-ND4) (N-Term) antibody



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Overview

Quantity:	100 µg
Target:	Mitochondrially Encoded NADH Dehydrogenase 4 (MT-ND4)
Binding Specificity:	N-Term
Reactivity:	Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	Un-conjugated
Application:	Western Blotting (WB)

Product Details

Purpose:	Anti-ND4/Mtnd4 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of rat ND4/Mtnd4, which shares 82.3% amino acid (aa) sequence identity with mouse ND4/Mtnd4.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-ND4/Mtnd4 Antibody (ABIN7603115). Tested in WB applications. This antibody reacts with Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	Mitochondrially Encoded NADH Dehydrogenase 4 (MT-ND4)
Alternative Name:	Mtnd4 (MT-ND4 Products)
Background:	<p>Synonyms: NADH-ubiquinone oxidoreductase chain 4, NADH dehydrogenase subunit 4, Mtnd4, mt-Nd4, Nd4</p> <p>Tissue Specificity: Expressed in lung, on the vascular capillary network within alveolar walls, and also at lower level in kidney.</p> <p>Background: NADH-ubiquinone oxidoreductase chain 4 is a protein that in humans is encoded by the mitochondrial gene MT-ND4. The ND4 protein is a subunit of NADH dehydrogenase (ubiquinone), which is located in the mitochondrial inner membrane and is the largest of the five complexes of the electron transport chain. Variations in the MT-ND4 gene are associated with age-related macular degeneration (AMD), Leber's hereditary optic neuropathy (LHON), mesial temporal lobe epilepsy (MTLE) and cystic fibrosis.</p>
Molecular Weight:	48 kDa
Gene ID:	26201
UniProt:	P05508

Application Details

Application Notes:	<p>Western blot, 0.25-0.5 µg/mL, Rat</p> <p>1. Arizmendi, J. M., Skehel, J. M., Runswick, M. J., Fearnley, I. M., Walker, J. E. Complementary DNA sequences of two 14.5 kDa subunits of NADH:ubiquinone oxidoreductase from bovine heart mitochondria. Complementation of the primary structure of the complex. FEBS Lett. 313: 80-84, 1992. 2. Attardi, G., Chomyn, A., Doolittle, R. F., Mariottini, P., Ragan, C. I. Seven unidentified reading frames of human mitochondrial DNA encode subunits of the respiratory chain NADH dehydrogenase. Cold Spring Harbor Symp. Quant. Biol. 1: 103-114, 1986. 3. Attardi, G., Chomyn, A., Montoya, J., Ojala, D. Identification and mapping of human mitochondrial genes. Cytogenet. Cell Genet. 32: 85-98, 1982.</p>
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Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL

Handling

Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg NaN ₃ .
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C, -20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.