Datasheet for ABIN7603114

anti-MT-ND2 antibody (N-Term)

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Overview

Quantity:	100 µg
Target:	MT-ND2
Binding Specificity:	N-Term
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MT-ND2 antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-NADH2/Mtnd2 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of mouse NADH2/Mtnd2, which shares 80% amino acid (aa) sequence identity with rat NADH2/Mtnd2.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-NADH2/Mtnd2 Antibody Picoband® (ABIN7603114). Tested in Flow Cytometry, WB applications. This antibody reacts with Mouse, 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:	MT-ND2
Alternative Name:	Mtnd2 (MT-ND2 Products)
Background:	Synonyms: NADH-ubiquinone oxidoreductase chain 2, NADH dehydrogenase subunit 2, Mtnd2, mt-Nd2, Nd2 Tissue Specificity: Ubiquitously expressed. Background: Mitochondrially encoded NADH dehydrogenase 2 is protein that in humans is encoded by the mitochondrial gene MT-ND2 gene. The ND2 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. Variants of MT-ND2 are associated with mitochondrial encephalomyopathy, lactic acidosis, and stroke-like episodes (MELAS), Leigh's syndrome (LS), Leber's hereditary optic neuropathy (LHON) and increases in adult BMI.
Molecular Weight:	39 kDa
Gene ID:	17717
UniProt:	P03893

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Mouse, Rat Flow Cytometry (Fixed), 1-3 µg/1x106 cells, Mouse, Rat 1. Anderson, S., Bankier, A. T., Barrell, B. G., de Bruijn, M. H. L., Coulson, A. R., Drouin, J., Eperon, I. C., Nierlich, D. P., Roe, B. A., Sanger, F., Schreier, P. H., Smith, A. J. H., Staden, R., Young, I. G. Sequence and organization of the human mitochondrial genome. Nature 290: 457-465, 1981. 2. 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. 3. 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.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized

Handling

Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na_2HPO_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.