

## Anti-MT-ND1 Polyclonal Antibody

## Product Details

Ig Type:	IgG
Reactivity:	Rat (predicted:Human,Mouse)
Molecular Weight:	Theoretical: 36 kDa. Actual: 35 kDa.
Purification:	Protein A purified

## Applications

Verified Activity:	Sample: Cerebrum (Rat) Lysate at 40 µg Primary: Anti-MT-ND1 (TMAB-09074) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 36 kD Observed band size: 35 kD
Application:	WB
Recommended	WB: 1:500-2000

## Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

## Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human MT-ND1
Antigen Species:	Human
Gene ID:	4535
Uniprot ID:	P03886

## Research Background

MT-ND1 is the 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. Defects in MT-ND1 are a cause of Leber hereditary optic neuropathy (LHON) [MIM:535000]; also known as Leber optic atrophy. LHON is a maternally inherited disease resulting in acute bilateral blindness due to retinal degeneration predominantly in young men. Cardiac conduction defects and neurological defects have also been described, resulting in optic nerve degeneration and cardiac dysrhythmia. Defects in MT-ND1 may also be associated with mitochondrial susceptibility to Alzheimer disease (AD) and non insulin dependent diabetes mellitus (NIDDM).

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