

## Product datasheet

# Anti-MT-CYB antibody [5B3-6E3] - N-terminal ab219823

[2 Images](#)

### Overview

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<b>Product name</b>	Anti-MT-CYB antibody [5B3-6E3] - N-terminal
<b>Description</b>	Mouse monoclonal [5B3-6E3] to MT-CYB - N-terminal
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Synthetic peptide corresponding to Human MT-CYB (N terminal). Database link: <a href="#">P00156</a>
<b>Positive control</b>	WB: Mitochondria from cultured normal control human dermal fibroblasts neonatal (HDFn); Whole cell extract of cultured normal control human dermal fibroblasts neonatal (HDFn).

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.20 Preservative: 0.02% Sodium azide Constituents: 0.36% HEPES, 0.87% Sodium chloride
<b>Purity</b>	Protein L purified
<b>Purification notes</b>	Purified from hybridoma cell culture supernatant by Protein L affinity chromatography from fetal bovine serum containing medium (Protein L does not bind bovine IgG).
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	5B3-6E3
<b>Isotype</b>	IgG2b
<b>Light chain type</b>	kappa

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab219823** 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
WB		Use a concentration of 0.05 - 2 µg/ml. Detects a band of approximately 28 kDa (predicted molecular weight: 43 kDa).

## Target

<b>Function</b>	Component of the ubiquinol-cytochrome c reductase complex (complex III or cytochrome b-c1 complex), which is a respiratory chain that generates an electrochemical potential coupled to ATP synthesis.
<b>Involvement in disease</b>	Defects in MT-CYB are a rare cause of mitochondrial dysfunction underlying different myopathies. They include mitochondrial encephalomyopathy, hypertrophic cardiomyopathy (HCM), and sporadic mitochondrial myopathy (MM). In mitochondrial myopathy, exercise intolerance is the predominant symptom. Additional features include lactic acidosis, muscle weakness and/or myoglobinuria. Defects in MTCYB are also found in cases of exercise intolerance accompanied by deafness, mental retardation, retinitis pigmentosa, cataract, growth retardation, epilepsy (multisystem disorder). Cardiomyopathy, infantile histiocytoid Leber hereditary optic neuropathy
<b>Sequence similarities</b>	Belongs to the cytochrome b family.
<b>Cellular localization</b>	Mitochondrion inner membrane.

## Images



Western blot - Anti-MT-CYB antibody [5B3-6E3] - N-terminal (ab219823)

**All lanes :** Anti-MT-CYB antibody [5B3-6E3] - N-terminal (ab219823) at 0.1 µg/ml

**Lane 1 :** Mitochondria from cultured normal control human dermal fibroblasts neonatal (HDFn)

**Lane 2 :** Mitochondria from HDFn cells depleted of mtDNA by long-term proliferation in the presence of ethidium bromide

Lysates/proteins at 10 µg per lane.

### Secondary

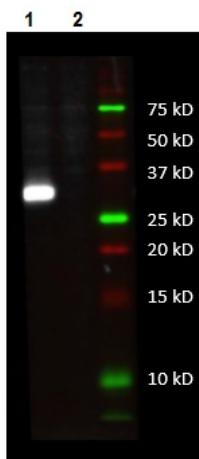
HRP-labeled Goat-anti-mouse IgG

Developed using the ECL technique

**Predicted band size :** 43 kDa

**Observed band size :** 28 kDa

Mitochondrial proteins solubilized in 2% SDS were separated by SDS-PAGE and then transferred to PVDF membranes in CAPS buffer.



Western blot - Anti-MT-CYB antibody [5B3-6E3] - N-terminal (ab219823)

**All lanes :** Anti-MT-CYB antibody [5B3-6E3] - N-terminal (ab219823) at 2 µg/ml

**Lane 1 :** Whole cell extract of cultured normal control human dermal fibroblasts neonatal (HDFn)

**Lane 2 :** Whole cell extract HDFn-Rho0 cells depleted of mtDNA by long-term culture in the presence of ethidium bromide

Lysates/proteins at 15 µg per lane.

### Secondary

HRP-labeled Goat-anti-mouse IgG

Developed using the ECL technique

**Predicted band size :** 43 kDa

**Observed band size :** 28 kDa

Proteins were separated by SDS-PAGE and then transferred to PVDF membranes in CAPS buffer.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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