

## Product datasheet

# Anti-CYB5R3 antibody [1E3] ab117937

[2 Images](#)

### Overview

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<b>Product name</b>	Anti-CYB5R3 antibody [1E3]
<b>Description</b>	Mouse monoclonal [1E3] to CYB5R3
<b>Host species</b>	Mouse
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant full length Human CYB5R3 produced in HEK293T cells (NP_000389).
<b>Positive control</b>	HEK293T cell lysate transfected with pCMV6-ENTRY CYB5R3; COS7 cells transiently transfected by pCMV6-ENTRY CYB5R3.
<b>General notes</b>	Stable for 12 months from date of receipt.

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 48% PBS, 1% BSA, 50% Glycerol
<b>Purity</b>	Protein G purified
<b>Purification notes</b>	ab117937 is purified from Mouse ascites fluids by affinity chromatography.
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	1E3
<b>Isotype</b>	IgG1

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab117937** in the following tested applications.

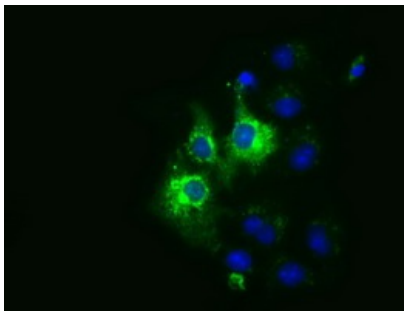
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500. Predicted molecular weight: 34 kDa.
ICC/IF		1/100.

## Target

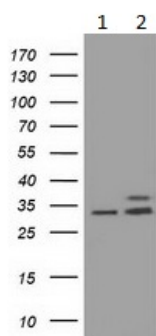
<b>Function</b>	Desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin reduction.
<b>Tissue specificity</b>	Isoform 2 is expressed at late stages of erythroid maturation.
<b>Involvement in disease</b>	Defects in CYB5R3 are the cause of methemoglobinemia CYB5R3-related (METHB-CYB5R3) [MIM:250800]. A form of methemoglobinemia, a hematologic disease characterized by the presence of excessive amounts of methemoglobin in blood cells, resulting in decreased oxygen carrying capacity of the blood, cyanosis and hypoxia. There are two types of methemoglobinemia CYB5R3-related. In type 1, the defect affects the soluble form of the enzyme, is restricted to red blood cells, and causes well-tolerated methemoglobinemia. In type 2, the defect affects both the soluble and microsomal forms of the enzyme and is thus generalized, affecting red cells, leukocytes and all body tissues. Type 2 methemoglobinemia is associated with mental deficiency and other neurologic symptoms.
<b>Sequence similarities</b>	Belongs to the flavoprotein pyridine nucleotide cytochrome reductase family. Contains 1 FAD-binding FR-type domain.
<b>Cellular localization</b>	Endoplasmic reticulum membrane. Mitochondrion outer membrane and Cytoplasm. Produces the soluble form found in erythrocytes.

## Images



ab117937 at 1/100 dilution staining CYB5R3 in COS7 cells transiently transfected by pCMV6-ENTRY CYB5R3 by Immunofluorescence.

Immunocytochemistry/ Immunofluorescence - Anti-CYB5R3 antibody [1E3] (ab117937)



Western blot - Anti-CYB5R3 antibody [1E3]  
(ab117937)

**All lanes :** Anti-CYB5R3 antibody [1E3]

(ab117937) at 1/500 dilution

**Lane 1 :** HEK293T cell lysate transfected with pCMV6-ENTRY control cDNA

**Lane 2 :** HEK293T cell lysate transfected with pCMV6-ENTRY CYB5R3 cDNA

Lysates/proteins at 5 µg per lane.

**Predicted band size:** 34 kDa

HEK293T cell lysates were generated from transient transfection of the cDNA clone (RC200841)

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

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