

Product datasheet

Anti-CYB5R3 antibody [1E3] ab117937

[2 Images](#)

Overview

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

Properties

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

Applications

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

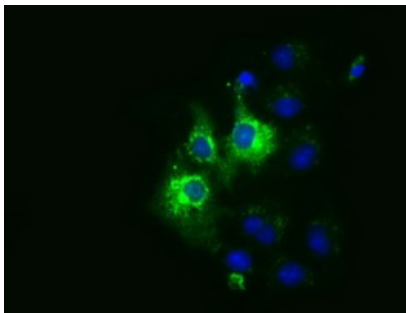
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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

Target

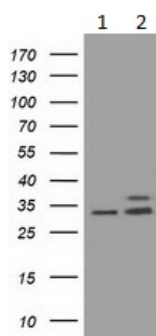
Function	Desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin reduction.
Tissue specificity	Isoform 2 is expressed at late stages of erythroid maturation.
Involvement in disease	Defects in CYB5R3 are the cause of methemoglobinemia CYB5R3-related (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.
Sequence similarities	Belongs to the flavoprotein pyridine nucleotide cytochrome reductase family. Contains 1 FAD-binding FR-type domain.
Cellular localization	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)

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