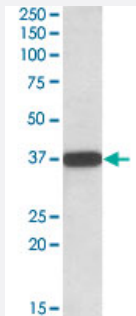


# CYB5R3 polyclonal antibody

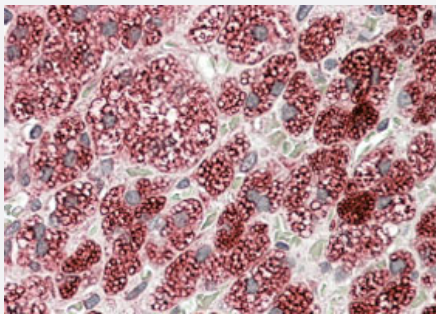
Catalog # PAB19649      Size 100 ug

## Applications



### Western Blot (Tissue lysate)

CYB5R3 polyclonal antibody (Cat # PAB19649) (0.01 ug/mL) staining of human umbilical cord lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining of human adrenal gland with CYB5R3 polyclonal antibody (Cat # PAB19649) (3.8 ug/mL). Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

## Specification

Product Description	Goat polyclonal antibody raised against synthetic peptide of CYB5R3.
Immunogen	A synthetic peptide corresponding to C-terminus of human CYB5R3.
Sequence	CLPNLDHVGHP TER
Host	Goat
Theoretical MW (kDa)	38.2
Reactivity	Human

<b>Specificity</b>	This antibody is expected to recognize all three reported isoforms (NP_000389.1; NP_001123291.1 ; NP_001165131.1).
<b>Form</b>	Liquid
<b>Purification</b>	Antigen affinity purification
<b>Recommend Usage</b>	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)(3-5 ug/mL) ELISA (1:32000) Western Blot (0.01-0.03 ug/mL) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
<b>Storage Instruction</b>	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Western Blot (Tissue lysate)

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- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Enzyme-linked Immunoabsorbent Assay

## Gene Info — CYB5R3

<b>Entrez GeneID</b>	<a href="#">1727</a>
<b>Protein Accession#</b>	<a href="#">NP_000389.1;NP_001123291.1;NP_001165131.1</a>
<b>Gene Name</b>	CYB5R3
<b>Gene Alias</b>	B5R, DIA1
<b>Gene Description</b>	cytochrome b5 reductase 3
<b>Omim ID</b>	<a href="#">250800</a>

## Gene Ontology

[Hyperlink](#)

## Gene Summary

This gene encodes cytochrome b5 reductase, which includes a membrane-bound form in somatic cells (anchored in the endoplasmic reticulum, mitochondrial and other membranes) and a soluble form in erythrocytes. The membrane-bound form exists mainly on the cytoplasmic side of the endoplasmic reticulum and functions in desaturation and elongation of fatty acids, in cholesterol biosynthesis, and in drug metabolism. The erythrocyte form is located in a soluble fraction of circulating erythrocytes and is involved in methemoglobin reduction. The membrane-bound form has both membrane-binding and catalytic domains, while the soluble form has only the catalytic domain. These two forms are resulted from alternative splicing of the gene. Mutations in this gene cause methemoglobinemias. [provided by RefSeq]

## Other Designations

NADH-cytochrome b5 reductase|OTTHUMP00000028761|cytochrome b5 reductase|diaphorase (NADH) (cytochrome b-5 reductase)

## Pathway

- [Amino sugar and nucleotide sugar metabolism](#)

## Disease

- [Kidney Failure](#)