

**CYB5R3 Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP50643**

**Specification**

---

**CYB5R3 Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | <b>WB, IHC</b>         |
| Primary Accession | <a href="#">P00387</a> |
| Host              | <b>Rabbit</b>          |
| Clonality         | <b>Polyclonal</b>      |
| Calculated MW     | <b>34 32 38 KDa</b>    |
| Antigen Region    | <b>148-175</b>         |

**CYB5R3 Antibody - Additional Information**

**Gene ID** 1727

**Other Names**

NADH-cytochrome b5 reductase 3, B5R, Cytochrome b5 reductase, Diaphorase-1, NADH-cytochrome b5 reductase 3 membrane-bound form, NADH-cytochrome b5 reductase 3 soluble form, CYB5R3, DIA1

**Dilution**

WB~~1:1000  
IHC~~1:50-1:100

**Format**

Rabbit IgG in phosphate buffered saline (without Mg<sup>2+</sup> and Ca<sup>2+</sup>), pH 7.4, 150mM NaCl, 0.09% (W/V) sodium azide and 50% glycerol.

**Storage Conditions**

-20°C

**CYB5R3 Antibody - Protein Information**

**Name** CYB5R3 ([HGNC:2873](#))

**Synonyms** DIA1

**Function**

Catalyzes the reduction of two molecules of cytochrome b5 using NADH as the electron donor.

**Cellular Location**

[Isoform 1]: Endoplasmic reticulum membrane; Lipid-anchor {ECO:0000250|UniProtKB:P20070}; Cytoplasmic side {ECO:0000250|UniProtKB:P20070}. Mitochondrion outer membrane; Lipid-anchor {ECO:0000250|UniProtKB:P20070}; Cytoplasmic side {ECO:0000250|UniProtKB:P20070}

**Tissue Location**

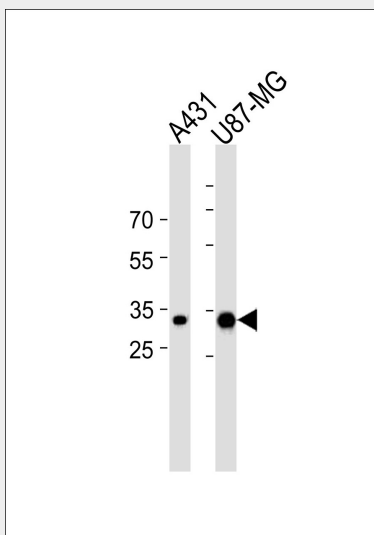
[Isoform 2]: Expressed at late stages of erythroid maturation.

### CYB5R3 Antibody - Protocols

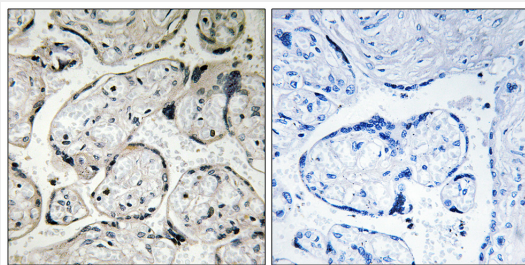
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### CYB5R3 Antibody - Images



Western blot analysis of lysates from A431,U-87 MG cell line (from left to right),using CYB5R3 Antibody(AP50643). AP50643 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody.Lysates at 35ug per lane.



Immunohistochemistry analysis of paraffin-embedded human placenta tissue using CYB5R3 antibody.

### CYB5R3 Antibody - Background

Desaturation and elongation of fatty acids, cholesterol biosynthesis, drug metabolism, and, in erythrocyte, methemoglobin reduction.

**CYB5R3 Antibody - References**

Tomatsu S.,et al.Gene 80:353-361(1989).

Voice M.W.,et al.Submitted (NOV-1996) to the EMBL/GenBank/DDBJ databases.

Yoon B.,et al.Submitted (MAR-2001) to the EMBL/GenBank/DDBJ databases.

Lan F.,et al.Submitted (AUG-1998) to the EMBL/GenBank/DDBJ databases.

Kalnine N.,et al.Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.