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CYB5R3 Antibody (C-term) Blocking Peptide

Synthetic peptide
Catalog # BP9448b

Specification

CYB5R3 Antibody (C-term) Blocking Peptide - Product Information

Primary Accession P00387

CYB5R3 Antibody (C-term) Blocking Peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CYB5R3 Antibody (C-term) Blocking Peptide - 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 (C-term) Blocking Peptide - Protocols

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

- Blocking Peptides

CYB5R3 Antibody (C-term) Blocking Peptide - Images

CYB5R3 Antibody (C-term) Blocking Peptide - Background

CYB5R3 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.

CYB5R3 Antibody (C-term) Blocking Peptide - References

Sacco, J.C., et al. Pharmacogenet. Genomics 20(1):26-37(2010)Brajovich, M.L., et al. Immunol. Invest. 38(6):551-559(2009)Fermo, E., et al. Blood Cells Mol. Dis. 41(1):50-55(2008)Brandt, D.T., et al. J. Cell Biol. 178(2):193-200(2007)Fernandez-Borja, M., et al. J. Cell. Sci. 118 (PT 12), 2661-2670 (2005)