



Mouse CYB5R3 blocking peptide (CDBP0928)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Product Overview | Blocking/Immunizing peptide for anti-CYB5R3/Dia 1 (mouse) antibody |
| Antigen Description | 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. Alternate splicing results in multiple transcript variants. Mutations in this gene cause methemoglobinemias. |
| Species | Mouse |
| Conjugate | Unconjugated |
| Applications | Apuri, BL, ELISA |
| Format | Lyophilized powder |
| Size | 100 µg |
| Preservative | None |
| Storage | Shipped at ambient temperature, store at -20°C. |

GENE INFORMATION

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| Gene Name | Cyb5r3 cytochrome b5 reductase 3 [Mus musculus] |
| Official Symbol | CYB5R3 |

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| Synonyms | CYB5R3; cytochrome b5 reductase 3; NADH-cytochrome b5 reductase 3; B5R; diaphorase-1; diaphorase 1 (NADH); Dia1; Dia-1; C85115; WU:Cyb5r3; 0610016L08Rik; 2500002N19Rik; WU:AL591952.1-001; WU:AL591952.1-002; WU:AL591952.1-003; |
| Entrez Gene ID | 109754 |
| mRNA Refseq | NM_029787 |
| Protein Refseq | NP_084063 |
| Pathway | Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; CMP-N-glycolylneuraminate biosynthesis, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific biosystem; Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem; Vitamin C (ascorbate) metabolism, organism-specific biosystem; |
| Function | ADP binding; AMP binding; FAD binding; NAD binding; cytochrome-b5 reductase activity; flavin adenine dinucleotide binding; oxidoreductase activity; |