# Recombinant Human CYB5R3 293 Cell Lysate

**Cat. No.** CYB5R3-7141HCL **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | |
| **Species** | Human |
| **Source** | HEK293 |
| **Description** | Antigen standard for cytochrome b5 reductase 3 (CYB5R3), transcript variant 2 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection. |
| **Components** | This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol). |
| **Size** | 0.1 mg |
| **Storage Instruction** | Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment. |

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| **Applications** | ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane. |

## GENE INFORMATION

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| **Gene Name** | CYB5R3 cytochrome b5 reductase 3 [ Homo sapiens ] |
| **Official Symbol** | CYB5R3 |
| **Synonyms** | CYB5R3; cytochrome b5 reductase 3; DIA1, diaphorase (NADH) (cytochrome b 5 reductase); NADH-cytochrome b5 reductase 3; diaphorase-1; NADH-cytochrome b5 reductase 3 soluble form; NADH-cytochrome b5 reductase 3 membrane-bound form; B5R; DIA1; |
| **Gene ID** | 1727 |
| **mRNA Refseq** | NM_007326 |
| **Protein Refseq** | NP_015565 |
| **MIM** | 613213 |
| **UniProt ID** | P00387 |
| **Chromosome Location** | 22q13.31-qter |
| **Pathway** | Amino sugar and nucleotide sugar metabolism, organism-specific biosystem; Amino sugar and nucleotide sugar metabolism, conserved biosystem; Metabolism, organism-specific biosystem; Metabolism of vitamins and cofactors, organism-specific |

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| | biosystem; Metabolism of water-soluble vitamins and cofactors, organism-specific biosystem; Vitamin C (ascorbate) metabolism, organism-specific biosystem; gamma-linolenate biosynthesis II (animals), organism-specific biosystem; |
| **Function** | FAD binding; cytochrome-b5 reductase activity; oxidoreductase activity; |

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