

Recombinant Human CYP46A1 293 Cell Lysate

Cat. No. CYP46A1-7105HCL Lot. No. (See product label)

SPECIFICATION

| | |
|----------------------------|---|
| Species | Human |
| Source | HEK293 |
| Description | Antigen standard for cytochrome P450, family 46, subfamily A, polypeptide 1 (CYP46A1) 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. |
| 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 |

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mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION

Gene Name [CYP46A1 cytochrome P450, family 46, subfamily A, polypeptide 1 \[Homo sapiens \]](#)

Official Symbol [CYP46A1](#)

Synonyms [CYP46A1](#); cytochrome P450, family 46, subfamily A, polypeptide 1; CYP46, cytochrome P450, subfamily 46 (cholesterol 24 hydroxylase); cholesterol 24-hydroxylase; CH24H; cytochrome P450 46A1; cytochrome P450, subfamily 46 (cholesterol 24-hydroxylase); CP46; CYP46;

Gene ID [10858](#)

mRNA Refseq [NM_006668](#)

Protein Refseq [NP_006659](#)

MIM [604087](#)

UniProt ID [Q9Y6A2](#)

Chromosome Location [14q32.1](#)

Pathway [Bile acid and bile salt metabolism, organism-specific biosystem](#); [Biological oxidations, organism-specific biosystem](#); [Cytochrome P450 - arranged by substrate type, organism-specific biosystem](#); [Endogenous sterols, organism-specific biosystem](#); [Metabolism, organism-specific biosystem](#); [Metabolism of lipids and lipoproteins, organism-specific biosystem](#); [Phase 1 - Functionalization of compounds, organism-](#)

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specific biosystem;

Function

cholesterol 24-hydroxylase activity; electron carrier activity; heme binding; metal ion binding; monooxygenase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen; steroid hydroxylase activity;

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