

Recombinant Human CYP4B1 293 Cell Lysate

Cat. No. CYP4B1-7104HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for cytochrome P450, family 4, subfamily B, polypeptide 1 (CYP4B1), 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.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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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
Gene Name

CYP4B1 cytochrome P450, family 4, subfamily B, polypeptide 1 [Homo sapiens]

Official Symbol

CYP4B1

Synonyms

CYP4B1; cytochrome P450, family 4, subfamily B, polypeptide 1; cytochrome P450, subfamily IVB, polypeptide 1; cytochrome P450 4B1; cytochrome P450-HP; microsomal monooxygenase; CYP4B1; P-450HP;

Gene ID

1580

mRNA Refseq

NM_000779

Protein Refseq

NP_000770

MIM

124075

UniProt ID

P13584

Chromosome Location

1p34-p12

Pathway

Biological oxidations, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Fatty acids, organism-specific biosystem; Metabolism, organism-specific biosystem; Nuclear receptors in lipid metabolism and toxicity, organism-specific biosystem; Phase 1 - Functionalization of

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compounds, organism-specific biosystem;

Function

aromatase activity; electron carrier activity; heme binding; metal ion binding;
monooxygenase activity; oxidoreductase activity, acting on paired donors, with
incorporation or reduction of molecular oxygen; oxygen binding;

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