

Recombinant Human CYP11B2 293 Cell Lysate

Cat. No. CYP11B2-7129HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for cytochrome P450, family 11, subfamily B, polypeptide 2 (CYP11B2), nuclear gene encoding mitochondrial protein 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
Gene Name

CYP11B2?cytochrome P450, family 11, subfamily B, polypeptide 2 [?Homo sapiens(human)]

Official Symbol

CYP11B2

Synonyms

CYP11B2; CPN2; ALDOS; CYP11B; CYP11BL; CYPXIB2; P450C18; P-450C18; P450aldo; cytochrome P450, family 11, subfamily B, polypeptide 2; cytochrome P450 11B2, mitochondrial; cytochrome P-450C18; aldosterone synthase; cytochrome P-450Aldo; steroid 11-beta-monooxygenase; steroid 11-beta/18-hydroxylase; aldosterone-synthesizing enzyme; steroid 18-hydroxylase, aldosterone synthase, P450C18, P450aldo; mitochondrial cytochrome P450, family 11, subfamily B, polypeptide 2; cytochrome P450, subfamily XIB (steroid 11-beta-hydroxylase), polypeptide 2; NP_000489.3; EC 1.14.15.4; EC 1.14.15.5

Gene ID

1585

mRNA Refseq

NM_000498

Protein Refseq

NP_000489

MIM

124080

UniProt ID

P19099

Chromosome

8q21-q22

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Location	
Pathway	ACE Inhibitor Pathway, organism-specific biosystem; C21-Steroid hormone biosynthesis, progesterone =>corticosterone/aldosterone, organism-specific biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Glucocorticoid & Mineralcorticoid Metabolism, organism-specific biosystem
Function	corticosterone 18-monooxygenase activity; heme binding; iron ion binding; steroid 11-beta-monooxygenase activity

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