

Recombinant Human CYP11B2 293 Cell Lysate

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

SPECIFICATION

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.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil

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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 Location	8q21-q22

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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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