

Recombinant Human CYP11B1 293 Cell Lysate

Cat. No. CYP11B1-7130HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for cytochrome P450, family 11, subfamily B, polypeptide 1 (CYP11B1), nuclear gene encoding mitochondrial protein, 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.
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	CYP11B1 cytochrome P450, family 11, subfamily B, polypeptide 1 [Homo sapiens]
Official Symbol	CYP11B1
Synonyms	CYP11B1; cytochrome P450, family 11, subfamily B, polypeptide 1; CYP11B, cytochrome P450, subfamily XIB (steroid 11 beta hydroxylase), polypeptide 1; cytochrome P450 11B1, mitochondrial; CPN1; FHI; P450C11; CYPXIB1; cytochrome P450C11; cytochrome P-450c11; cytochrome p450 XIB1; steroid 11-beta-hydroxylase; steroid 11-beta-monooxygenase; cytochrome P450, subfamily XIB (steroid 11-beta-hydroxylase), polypeptide 1; CYP11B; FLJ36771; DKFZp686B05283;
Gene ID	1584
mRNA Refseq	NM_000497
Protein Refseq	NP_000488
MIM	610613
UniProt ID	P15538
Chromosome Location	8q21-q22
Pathway	Biological oxidations, organism-specific biosystem; C21-Steroid hormone

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biosynthesis, progesterone =>corticosterone/aldosterone, organism-specific biosystem; C21-Steroid hormone biosynthesis, progesterone => corticosterone/aldosterone, conserved biosystem; C21-Steroid hormone biosynthesis, progesterone => cortisol/cortisone, organism-specific biosystem;

Function

electron carrier activity; heme binding; heme binding; metal ion binding; monooxygenase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen; steroid 11-beta-monooxygenase activity; steroid 11-beta-monooxygenase activity;

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