

Recombinant Human CYP2A6 293 Cell Lysate

Cat. No. CYP2A6-7117HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for cytochrome P450, family 2, subfamily A, polypeptide 6 (CYP2A6) 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	CYP2A6 cytochrome P450, family 2, subfamily A, polypeptide 6 [Homo sapiens]
Official Symbol	CYP2A6
Synonyms	CYP2A6; cytochrome P450, family 2, subfamily A, polypeptide 6; CYP2A3, cytochrome P450, subfamily IIA (phenobarbital inducible), polypeptide 6; cytochrome P450 2A6; CPA6; CYP2A; cytochrome P450(I); cytochrome P450 IIA3; coumarin 7-hydroxylase; xenobiotic monooxygenase; flavoprotein-linked monooxygenase; cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 6; CYP2A3; P450PB; CYP2A6; P450C2A;
Gene ID	1548
mRNA Refseq	NM_000762
Protein Refseq	NP_000753
UniProt ID	P11509
Chromosome Location	19q13.2
Pathway	Biological oxidations, organism-specific biosystem; Caffeine metabolism, organism-specific biosystem; Caffeine metabolism, conserved biosystem; Cytochrome P450 - arranged by substrate type, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Drug metabolism - other enzymes, organism-specific

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biosystem;

Function

aromatase activity; coumarin 7-hydroxylase activity; electron carrier activity; enzyme binding; heme binding; metal ion binding;

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