Recombinant Human CYP2A7 293 Cell Lysate

Cat. No. CYP2A7-7116HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Species	Human
Source	HEK293
Description	Antigen standard for cytochrome P450, family 2, subfamily A, polypeptide 7 (CYP2A7), transcript variant 1 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
45-1 Ramsey Road, Shirley, NY 11967, USA

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	CYP2A7 cytochrome P450, family 2, subfamily A, polypeptide 7 [Homo sapiens]
Official Symbol	CYP2A7
Synonyms	CYP2A7; cytochrome P450, family 2, subfamily A, polypeptide 7; cytochrome P450, subfamily IIA (phenobarbital inducible), polypeptide 7; cytochrome P450 2A7; CYP2A; cytochrome P450 IIA4; cytochrome P450, subfamily IIA (phenobarbital-inducible), polypeptide 7; CPA7; CPAD; CYPIIA7; P450-IIA4;
Gene ID	1549
mRNA Refseq	NM_000764
Protein Refseq	NP_000755
MIM	608054
UniProt ID	P20853
Chromosome Location	19q13.2
Pathway	Caffeine metabolism, organism-specific biosystem; Caffeine metabolism, conserved biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved biosystem; Drug metabolism - other

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	enzymes, organism-specific biosystem; Drug metabolism - other enzymes, conserved biosystem; Fatty Acid Omega Oxidation, organism-specific biosystem;
Function	aromatase activity; electron carrier activity; heme binding; metal ion binding; oxygen binding;

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