

Recombinant Human ACOX2 293 Cell Lysate

Cat. No. ACOX2-9085HCL Lot. No. (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for acyl-Coenzyme A oxidase 2, branched chain (ACOX2) 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 [ACOX2 acyl-CoA oxidase 2, branched chain \[Homo sapiens \]](#)

Official Symbol [ACOX2](#)

Synonyms [ACOX2](#); acyl-CoA oxidase 2, branched chain; acyl Coenzyme A oxidase 2, branched chain; peroxisomal acyl-coenzyme A oxidase 2; BRCACOX; BRCOX; THCA-CoA oxidase; trihydroxycoprostanoyl-CoA oxidase; acyl-Coenzyme A oxidase 2, branched chain; peroxisomal branched chain acyl-CoA oxidase; 3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholestanoyl-CoA oxidase; 3-alpha,7-alpha,12-alpha-trihydroxy-5-beta-cholestanoyl-CoA 24-hydroxylase; BCOX; THCCox;

Gene ID [8309](#)

mRNA Refseq [NM_003500](#)

Protein Refseq [NP_003491](#)

MIM [601641](#)


UniProt ID [Q99424](#)

Chromosome Location [3p14.3](#)

Pathway [Beta-oxidation of pristanoyl-CoA, organism-specific biosystem](#); [Bile acid and bile salt metabolism, organism-specific biosystem](#); [Bile acid biosynthesis, cholesterol =>cholate, organism-specific biosystem](#); [Bile acid biosynthesis, cholesterol =>](#)

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cholate, conserved biosystem; Metabolic pathways, organism-specific biosystem;

Function

3alpha,7alpha,12alpha-trihydroxy-5beta-cholestanoyl-CoA 24-hydroxylase activity;
acyl-CoA dehydrogenase activity; acyl-CoA oxidase activity; fatty acid binding; flavin
adenine dinucleotide binding; pristanoyl-CoA oxidase activity;

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