

Recombinant Human AKR1B10 293 Cell Lysate

Cat. No. AKR1B10-8931HCL **Lot. No.** (See product label)

SPECIFICATION

| | |
|----------------------------|---|
| Species | Human |
| Source | HEK293 |
| Description | Antigen standard for aldo-keto reductase family 1, member B10 (aldose reductase) (AKR1B10) 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

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| Gene Name | AKR1B10 aldose reductase family 1, member B10 (aldose reductase) [Homo sapiens] |
| Official Symbol | AKR1B10 |
| Synonyms | AKR1B10; aldose reductase family 1, member B10 (aldose reductase); AKR1B11; aldose reductase family 1 member B10; AKR1B12; aldose reductase family 1; member B11 (aldose reductase like); aldose reductase like 1; aldose reductase like peptide; aldose reductase related protein; ALDRLn; ARL 1; ARL1; HIS; HSI; small intestine reductase; ARP; hARP; SI reductase; aldose reductase-like 1; aldose reductase-like peptide; aldose reductase-related protein; aldose reductase family 1, member B11 (aldose reductase-like); ARL-1; MGC14103; |
| Gene ID | 57016 |
| mRNA Refseq | NM_020299 |
| Protein Refseq | NP_064695 |
| MIM | 604707 |
| UniProt ID | O60218 |
| Chromosome Location | 7q33 |
| Pathway | Fructose and mannose metabolism, organism-specific biosystem; Fructose and |

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mannose metabolism, conserved biosystem; Galactose metabolism, organism-specific biosystem; Galactose metabolism, conserved biosystem; Glycerolipid metabolism, organism-specific biosystem; Glycerolipid metabolism, conserved biosystem; Metabolic pathways, organism-specific biosystem;

Function

aldo-keto reductase (NADP) activity; geranylgeranyl reductase activity; indanol dehydrogenase activity; protein binding; retinal dehydrogenase activity;

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