# Recombinant Human ADH7 293 Cell Lysate

**Cat. No.** ADH7-9012HCL **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | |
| **Species** | Human |
| **Source** | HEK293 |
| **Description** | Antigen standard for alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide (ADH7), 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. |

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| **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

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| **Gene Name** | ADH7 alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide [ Homo sapiens ] |
| **Official Symbol** | ADH7 |
| **Synonyms** | ADH7; alcohol dehydrogenase 7 (class IV), mu or sigma polypeptide; alcohol dehydrogenase class 4 mu/sigma chain; ADH 4; retinol dehydrogenase; alcohol dehydrogenase-7; alcohol dehydrogenase VII; gastric alcohol dehydrogenase; class IV sigma-1 alcohol dehydrogenase; class IV sigmasigma alcohol dehydrogenase; alcohol dehydrogenase class IV mu/sigma chain; ADH4; |
| **Gene ID** | 131 |
| **mRNA Refseq** | NM_000673 |
| **Protein Refseq** | NP_000664 |
| **MIM** | 600086 |
| **UniProt ID** | P40394 |
| **Chromosome Location** | 4q23-q24 |
| **Pathway** | Biological oxidations, organism-specific biosystem; Drug metabolism - cytochrome P450, organism-specific biosystem; Drug metabolism - cytochrome P450, conserved |

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| | biosystem; Ethanol oxidation, organism-specific biosystem; Fatty Acid Omega Oxidation, organism-specific biosystem; Fatty acid metabolism, organism-specific biosystem; Fatty acid metabolism, conserved biosystem; |
| **Function** | alcohol dehydrogenase (NAD) activity; alcohol dehydrogenase activity, zinc-dependent; aldehyde oxidase activity; ethanol binding; metal ion binding; nucleotide binding; oxidoreductase activity; receptor antagonist activity; retinol binding; retinol dehydrogenase activity; zinc ion binding; |

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