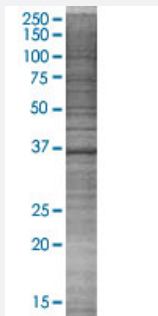


# AKR1C1 293T Cell Transient Overexpression Lysate(Denatured)

Catalog # H00001645-T02

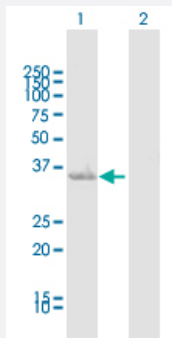
Size 100 uL

## Applications



### SDS-PAGE Gel

AKR1C1 transfected lysate.



### Western Blot

Lane 1: AKR1C1 transfected lysate ( 36.8 KDa)

Lane 2: Non-transfected lysate.

## Specification

|                               |                         |
|-------------------------------|-------------------------|
| Transfected Cell Line         | 293T                    |
| Plasmid                       | pCMV-AKR1C1 full-length |
| Host                          | Human                   |
| Theoretical MW (kDa)          | 36.8                    |
| Interspecies Antigen Sequence | Mouse (73); Rat (70)    |

## Quality Control Testing

Transient overexpression cell lysate was tested with Anti-AKR1C1 antibody ([H00001645-D01](#)) by Western Blots.  
SDS-PAGE Gel  
AKR1C1 transfected lysate.  
Western Blot  
Lane 1: AKR1C1 transfected lysate ( 36.8 KDa)  
Lane 2: Non-transfected lysate.

## Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

## Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

## Applications

- Western Blot

## Gene Info — AKR1C1

## Entrez GeneID

[1645](#)

## GeneBank Accession#

[NM\\_001353.5](#)

## Protein Accession#

[NP\\_001344.2](#)

## Gene Name

AKR1C1

## Gene Alias

2-ALPHA-HSD, 20-ALPHA-HSD, C9, DD1, DDH, DDH1, H-37, HAKRC, MBAB, MGC8954

## Gene Description

aldo-keto reductase family 1, member C1 (dihydrodiol dehydrogenase 1; 20-alpha (3-alpha)-hydroxysteroid dehydrogenase)

## Omim ID

[600449](#)

## Gene Ontology

[Hyperlink](#)

## Gene Summary

This gene encodes a member of the aldo/keto reductase superfamily, which consists of more than 40 known enzymes and proteins. These enzymes catalyze the conversion of aldehydes and ketones to their corresponding alcohols by utilizing NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme catalyzes the reaction of progesterone to the inactive form 20-alpha-hydroxy-progesterone. This gene shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. [provided by RefSeq]

**Other Designations**

20 alpha-hydroxysteroid dehydrogenase|OTTHUMP00000018992|aldo-keto reductase C|aldo-keto reductase family 1, member C1|chlordecone reductase homolog|dihydrodiol dehydrogenase 1|dihydrodiol dehydrogenase isoform DD1|hepatic dihydrodiol dehydrogenase|trans-

**Pathway**

- [Metabolism of xenobiotics by cytochrome P450](#)

**Disease**

- [Alzheimer Disease](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)