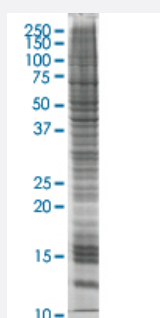


# AKR1C2 HEK293 Cell Transient Overexpression Lysate(Non-Denatured)

Catalog # L145T6

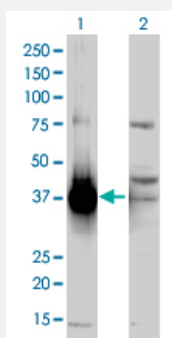
Size 100 ug

## Applications



### SDS-PAGE Gel

AKR1C2 transfected lysate



### Western Blot

Lane 1: AKR1C2 transfected lysate ( 37 KDa).

Lane 2: Non-transfected lysate.

## Specification

**Transfected Cell Line** HEK293

**Plasmid** pCMV-AKR1C2 full length

**Host** Human

**Theoretical MW (kDa)** 37

**Lysis Buffer** Modified RIPA Lysis Buffer:50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF.

**Concentration** 2 mg/ml

**Quality Control Testing**

Transient overexpression cell lysate was tested with Anti-AKR1C2 antibody ([H00001646-M03](#)) by Western Blots.  
SDS-PAGE Gel  
AKR1C2 transfected lysate  
Western Blot  
Lane 1: AKR1C2 transfected lysate ( 37 KDa).  
Lane 2: Non-transfected lysate.

**Recommend Usage**

Use it directly for immuno-precipitation, or heat lysate with SDS gel loading buffer to 95°C for 5 minutes followed by rapid cooling for western blot application. If dissociating conditions are required, add reducing agent prior to heating.

**Storage Buffer**

In modified RIPA Lysis Buffer.

**Storage Instruction**

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

## Applications

- Western Blot
- Immunoprecipitation

[Protocol Download](#)

## Gene Info — AKR1C2

Entrez GeneID [1646](#)

GeneBank Accession# [BC063574](#)

Protein Accession# [AAH63574](#)

Gene Name AKR1C2

Gene Alias AKR1C-pseudo, BABP, DD, DD2, DDH2, HAKRD, HBAB, MCDR2

Gene Description aldo-keto reductase family 1, member C2 (dihydrodiol dehydrogenase 2; bile acid binding protein ; 3-alpha hydroxysteroid dehydrogenase, type III)

Omim ID [600450](#)

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 using NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. This enzyme binds bile acid with high affinity, and shows minimal 3-alpha-hydroxysteroid dehydrogenase activity. 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**

OTTHUMP00000018995|OTTHUMP00000044759|aldo-keto reductase family 1, member C2|chlordecone reductase homolog|pseudo-chlordecone reductase|trans-1,2-dihydrobenzene-1,2-diol dehydrogenase|type II dihydrodiol dehydrogenase

**Pathway**

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

**Disease**

- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Prostatic Neoplasms](#)
- [Puberty](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)