

DNAXPAb

Hard-to-Find  
Antibody

# AKR1C4 DNAXPab

Catalog # H00001109-W01P      Size 200 ug

## Specification

|                                |                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Description</b>     | Rabbit polyclonal antibody raised against a full-length human AKR1C4 DNA using DNAX™ Immune technology.                                                                                                                                                                                                                                           |
| <b>Technology</b>              | <a href="#">DNAX™ Immune</a>                                                                                                                                                                                                                                                                                                                      |
| <b>Immunogen</b>               | Full-length human DNA                                                                                                                                                                                                                                                                                                                             |
| <b>Sequence</b>                | MDPKYQRVELNDGHFMPVLGFGTYAPPEVPRNRAVEVTCLAIEAGFRHIDSAYLYNNEEQVGLAIR<br>SKIADGSVKREDIFYTSKLWCTFFQPQMVQPALESSLKKLQLDYVDLYLLHFPALKPGETPLPK<br>DENGKVFIDTVDSLATWEVMEKCKDAGLAKSIGVSNFNRYQLEMILNKPGLKYKPV CNQVECHPY<br>LNQSKLLDFCKSKDMLVAHSALGTQRHKLWDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQ<br>RGVVVLAKSYNEQRIRENIQVFEFQLTSEDMKVLDGLNRNRYRVVMDFLMDHPDYPFSDEY |
| <b>Host</b>                    | Rabbit                                                                                                                                                                                                                                                                                                                                            |
| <b>Reactivity</b>              | Human                                                                                                                                                                                                                                                                                                                                             |
| <b>Purification</b>            | Protein A                                                                                                                                                                                                                                                                                                                                         |
| <b>Quality Control Testing</b> | Antibody reactive against mammalian transfected lysate.                                                                                                                                                                                                                                                                                           |
| <b>Storage Buffer</b>          | In 1x PBS, pH 7.4                                                                                                                                                                                                                                                                                                                                 |
| <b>Storage Instruction</b>     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                                                                                                                                                                                                                                                          |

## Applications

- Western Blot (Transfected lysate)  
[Protocol Download](#)
- Immunofluorescence (Transfected cell)
- Flow Cytometry (Transfected cell)

## Gene Info — AKR1C4

|                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Entrez GeneID       | <a href="#">1109</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| GeneBank Accession# | <a href="#">BC020744.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Protein Accession#  | <a href="#">AAH20744.1</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Gene Name           | AKR1C4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene Alias          | 3-alpha-HSD, C11, CDR, CHDR, DD4, HAKRA, MGC22581                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Gene Description    | aldo-keto reductase family 1, member C4 (chlordecone reductase; 3-alpha hydroxysteroid dehydrogenase, type I; dihydrodiol dehydrogenase 4)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Omim ID             | <a href="#">600451</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Gene Ontology       | <a href="#">Hyperlink</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 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 bioreduction of chlordecone, a toxic organochlorine pesticide, to chlordecone alcohol in liver. 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  | 3 alpha-hydroxysteroid dehydrogenase/dihydrodiol dehydrogenase 4[OTTHUMP00000018997]aldo-keto reductase family 1, member C4[chlordecone reductase[dihydrodiol dehydrogenase 4[dihydrodiol dehydrogenase isozyme DD4]type I 3-alpha-hydroxysteroid dehydrogenase                                                                                                                                                                                                                                                                                                                                                                     |

## Pathway

- [Androgen and estrogen metabolism](#)
- [C21-Steroid hormone metabolism](#)
- [Metabolic pathways](#)
- [Metabolism of xenobiotics by cytochrome P450](#)
- [Primary bile acid biosynthesis](#)

## Disease

- [Alzheimer Disease](#)
- [Atherosclerosis](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Obesity](#)
- [Pulmonary Disease](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)