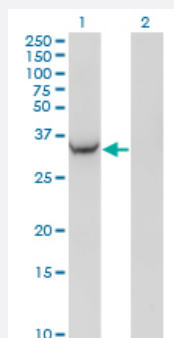


# AKR1C2 monoclonal antibody (M03), clone 3C11

Catalog # H00001646-M03

Size 100 ug

## Applications

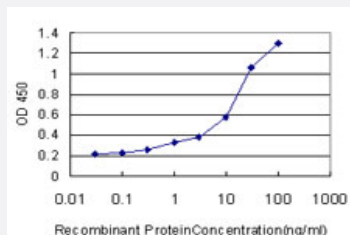


### Western Blot (Transfected lysate)

Western Blot analysis of AKR1C2 expression in transfected 293T cell line by AKR1C2 monoclonal antibody (M03), clone 3C11.

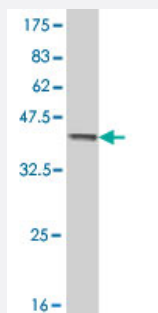
Lane 1: AKR1C2 transfected lysate (36.7 KDa).

Lane 2: Non-transfected lysate.



### Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AKR1C2 is approximately 0.3ng/ml as a capture antibody.



Western Blot detection against Immunogen (36.74 KDa).

## Specification

### Product Description

Mouse monoclonal antibody raised against a partial recombinant AKR1C2.

|                         |                                                                                                                    |
|-------------------------|--------------------------------------------------------------------------------------------------------------------|
| Immunogen               | AKR1C2 (AAH63574, 224 a.a. ~ 323 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. |
| Sequence                | EEPWVDPNSPVLLDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEFQL<br>TSEEMKAIDGLNRNVRYLTLDIFAGPPNYPVSDEY            |
| Host                    | Mouse                                                                                                              |
| Reactivity              | Human                                                                                                              |
| Isotype                 | IgG2a Kappa                                                                                                        |
| Quality Control Testing | Antibody Reactive Against Recombinant Protein.<br>Western Blot detection against Immunogen (36.74 KDa) .           |
| Storage Buffer          | In 1x PBS, pH 7.4                                                                                                  |
| Storage Instruction     | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.                                           |

## Applications

- Western Blot (Transfected lysate)

Western Blot analysis of AKR1C2 expression in transfected 293T cell line by AKR1C2 monoclonal antibody (M03), clone 3C11.

Lane 1: AKR1C2 transfected lysate(36.7 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged AKR1C2 is approximately 0.3ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

## Gene Info — AKR1C2

Entrez GeneID [1646](#)

GeneBank Accession# [BC063574](#)

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protein Accession# | <a href="#">AAH63574</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| 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            | <a href="#">600450</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 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 10 p15-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                                                                                                                                                                                                                                                                                                                                                                                           |

## Publication Reference

- [Aldo-keto reductases AKR1C1, AKR1C2 and AKR1C3 may enhance progesterone metabolism in ovarian endometriosis.](#)

Hevir N, Vouk K, Sinkovec J, Ribic-Pucelj M, Lanisnik Rizner T.

Chemico-biological Interactions 2011 May; 191(1-3):217.

Application: WB, Human, Myoma, Endometrium

- [Aldo-keto reductase 1C2 fails to metabolize doxorubicin and daunorubicin in vitro.](#)

Takahashi RH, Bains OS, Pfeifer TA, Grigliatti TA, Reid RE, Riggs KW.

Drug Metabolism and Disposition 2008 Mar; 36(6):991.

Application: WB, Recombinant protein

## 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](#)