Datasheet: VMA00346

**Description:** MOUSE ANTI AKR1C2

**Specificity:** AKR1C2

**Format:** Purified

**Product Type:** PrecisionAb™ Monoclonal

**Isotype:** IgG2a

**Quantity:** 100 µl

### Product Details

**Applications**

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

<table>
<thead>
<tr>
<th>Applications</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Western Blotting</td>
<td>1/1000</td>
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**PrecisionAb antibodies have been extensively validated for the western blot application.**

The antibody has been validated at the suggested dilution. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependant on sample type.

**Target Species**

Human

**Product Form**

Purified IgG - liquid

**Preparation**

Mouse monoclonal antibody prepared by affinity chromatography on Protein G from tissue culture supernatant

**Buffer Solution**

Phosphate buffered saline

**Preservative Stabilisers**

0.09% Sodium Azide (NaN₃)

**Immunogen**

Recombinant human AKR1C2

**External Database Links**

**UniProt:**

P52895 Related reagents

**Entrez Gene:**

1646 AKR1C2 Related reagents

**Synonyms**

DDH2

**Specificity**

Mouse anti Human AKR1C2 antibody recognizes the aldo-keto reductase family 1 member
C2, also known as 3-alpha-HSD3, DD-2, DD/BABP, aldo-keto reductase family 1 member C2, chlordecone reductase homolog HAKRD, dihydrodiol dehydrogenase 2, bile acid binding protein, 3-alpha hydroxysteroid dehydrogenase, type III, pseudo-chlordecone reductase, testicular 17,20-desmolase deficiency, trans-1,2-dihydrobenzene-1,2-diol dehydrogenase and type II dihydrodiol dehydrogenase.

Encoded by the AKR1C2 gene, aldo-keto reductase family 1 member C2 is 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. AKR1C2 shares high sequence identity with three other gene members and is clustered with those three genes at chromosome 10p15-p14. Three transcript variants encoding two different isoforms have been found for AKR1C2 (provided by RefSeq, Dec 2011).

Mouse anti Human AKR1C2 antibody detects a band of 36 kDa. The antibody has been extensively validated for western blotting using whole cell lysates. This antibody is available with a positive control lysate, in a smaller trial size, and as a standalone antibody.

**Western Blotting**

Anti AKR1C2 detects a band of approximately 36 kDa in HeLa cell lysates

**Instructions For Use**

Please refer to the [PrecisionAb western blotting protocol](https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf). For additional information on secondary antibody dilution and exposure time see product web page.

**Storage**

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

**Shelf Life**

As supplied, 12 months from date of despatch.

**Acknowledgements**

PrecisionAb™ is a trademark of Bio-Rad Laboratories.

**Health And Safety Information**


**Regulatory**

For research purposes only

## Related Products

**Recommended Secondary Antibodies**

Goat Anti Mouse IgG (H/L) (STAR207...) **HRP**