

Datasheet: VMA00346

BATCH NUMBER 170420

| | |
|----------------------|------------------------|
| 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.

| | Yes | No | Not Determined | Suggested Dilution |
|------------------|-----|----|----------------|--------------------|
| Flow Cytometry | ▪ | | | |
| Western Blotting | ▪ | | | 1/1000 |

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. 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 dependent 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 (NaN ₃). |
| Approx. Protein Concentrations | IgG concentration 0.5 mg/ml |
| 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.

Western Blotting

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

Storage

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

Guarantee

12 months from date of despatch.

Acknowledgements

PrecisionAb is a trademark of Bio-Rad Laboratories.

**Health And Safety
Information**

Material Safety Datasheet documentation #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/VMA00346>
Antibody (10040)

Regulatory

For research purposes only.

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

North & South Tel: +1 800 265 7376

Worldwide Tel: +44 (0)1865 852 700

Europe Tel: +49 (0) 89 8090 95 21

America Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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