

Datasheet: VMA00334

Description:	MOUSE ANTI AKR1C1
Specificity:	AKR1C1
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	CPTC4
Isotype:	IgG1
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
Western Blotting	▪			1/1000
Immunofluorescence	▪			

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Learn about [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 AKR1C1

**External Database
Links**

UniProt:

[Q04828](#)

[Related reagents](#)

Entrez Gene:

[1645](#)

AKR1C1

[Related reagents](#)

Synonyms

DDH, DDH1

Specificity

Mouse anti Human AKR1C1 antibody, clone CPTC4 detects the aldo-keto reductase family 1 member C1, also known as 20-alpha-hydroxysteroid dehydrogenase (20-alpha-HSD), chlordecone reductase homolog HAKRC and high-affinity hepatic bile acid-binding protein (HBAB). Encoded by the AKR1C1 gene, aldo-keto reductase family 1 member C1 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 by utilizing NADH and/or NADPH as cofactors. The enzymes display overlapping but distinct substrate specificity. Aldo-keto reductase family 1 member C1 catalyzes the reaction of progesterone to the inactive form 20-alpha-hydroxy-progesterone. In the liver and intestine, it may have a role in the transport of bile, monitoring the intrahepatic bile acid concentration.

Mouse anti Human AKR1C1 antibody, clone CPTC4 detects a band of 36 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting

Anti AKR1C1 detects a band of approximately 36 kDa in A549 cell lysates.

Storage

This product is shipped at ambient temperature.
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/VMA00334>

Regulatory

For research purposes only.

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

Printed on 09 Jul 2025

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