

Datasheet: VMA00045

Description:	MOUSE ANTI RETINOL BINDING PROTEIN 4
Specificity:	RETINOL BINDING PROTEIN 4
Other names:	RBP4
Format:	Purified
Product Type:	PrecisionAb Monoclonal
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

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 purified by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃)
Immunogen	Human recombinant retinol binding protein 4
External Database Links	<p>UniProt: P02753 Related reagents</p> <p>Entrez Gene: 5950 RBP4 Related reagents</p>
Specificity	Mouse anti Human retinol binding protein 4 antibody recognizes human serum retinol binding

protein 4 (RBP4), a 201 amino acid single-chain glycoprotein belonging to the [lipocalin](#) family, which is responsible for the transport of Retinol (vitamin A1) from the liver to peripheral target tissues.

In plasma, the RBP4-retinol complex interacts with transthyretin preventing its loss by filtration through the kidney glomeruli. Defects in RBP4 are a cause of retinol-binding protein deficiency and can cause night vision problems ([Besch et al. 2003](#)). RBP4 gene variants have been implicated in insulin resistance ([Saucedo et al. 2014](#))

Mouse anti Human retinol binding protein 4 antibody recognizes free RBP4 and RBP4 in complex with transthyretin. It reacts with apo- as well as holo-RBP4. Mouse anti Human RBP4 antibody recognizes RBP4 as a single band of ~20 kDa in HepG2 cell line whole cell lysates by western blotting under reducing conditions.

Western Blotting	Anti retinol binding protein 4 antibody detects a band of approximately 20 kDa in HepG2 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: Antibody (10040): https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
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 \(MCA928\)](#)

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

'M369863:200529'

Printed on 11 Aug 2020