

Datasheet: VMA00045

**BATCH NUMBER 191214**

<b>Description:</b>	MOUSE ANTI RETINOL BINDING PROTEIN 4
<b>Specificity:</b>	RETINOL BINDING PROTEIN 4
<b>Other names:</b>	RBP4
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody purified by affinity chromatography on Protein A from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Immunogen</b>	Human recombinant retinol binding protein 4
<b>External Database Links</b>	<b>UniProt:</b>

**Entrez Gene:**[5950](#)

RBP4

[Related reagents](#)**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: <https://www.bio-rad-antibodies.com/SDS/VMA00045>  
Antibody (10040)

**Regulatory**

For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

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