

## Datasheet: MCA4655

<b>Description:</b>	MOUSE ANTI HUMAN RETINOL BINDING PROTEIN 4
<b>Specificity:</b>	RETINOL BINDING PROTEIN 4
<b>Other names:</b>	RBP4
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	RB42
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 mg

## Product Details

**RRID** AB\_2179256

### 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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting	▪			

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**Target Species** Human

**Product Form** Purified IgG - liquid

**Preparation** Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant

**Buffer Solution** Phosphate buffered saline

**Preservative Stabilisers** 0.09% Sodium Azide (NaN<sub>3</sub>)

**Approx. Protein Concentrations** IgG concentration 1mg/ml

**Immunogen** Human recombinant Retinol Binding Protein 4.

**External Database  
Links**

**UniProt:**

[P02753](#)   [Related reagents](#)

**Entrez Gene:**

[5950](#)   RBP4   [Related reagents](#)

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**Fusion Partners**

Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.

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**Specificity**

**Mouse anti Human Retinol Binding Protein 4 antibody, clone RB42** recognizes human serum Retinol Binding Protein 4 (RBP4), a 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 through filtration through the kidney glomeruli. Defects in RBP4 are a cause of retinol-binding protein deficiency and can cause night vision problems. RBP4 has been described as an adipokine that contributes to insulin resistance in mice.

Mouse anti Human Retinol Binding Protein 4 antibody, clone RB42 recognizes free RBP4 and RBP4 in complex with transthyretin. It reacts with apo- as well as holo-RBP4. It recognizes human RBP4 in western blotting under reducing conditions.

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**References**

1. Reddy, B. M. *et al.* (1993) Antigenic determinants of human serum retinol binding protein as probed with monoclonal antibodies [Mol Immunol. 30: 1355-60](#)
2. Sundaram, M. *et al.* (1998) The transfer of retinol from serum retinol-binding protein to cellular retinol-binding protein is mediated by a membrane receptor [J Biol Chem. 273: 3336-42](#)

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**Storage**

Store at +4°C or at -20°C if preferred.  
This product should be stored undiluted.  
Storage in frost-free freezers is not recommended.  
Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

18 months from date of despatch.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10040 available at:  
10040: <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Rabbit Anti Mouse IgG (STAR12...) [RPE](#)  
Rabbit Anti Mouse IgG (STAR8...) [DyLight®800](#)  
Rabbit Anti Mouse IgG (STAR13...) [HRP](#)  
Goat Anti Mouse IgG (STAR76...) [RPE](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@680](#),  
[DyLight@800](#), [FITC](#), [HRP](#)

## Recommended Negative Controls

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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