

Datasheet: MCA4655

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

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			■	
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 ₃)
Approx. Protein Concentrations	IgG concentration 1mg/ml
Immunogen	Human recombinant Retinol Binding Protein 4.
External Database Links	UniProt:

Entrez Gene:

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

Fusion Partners	Spleen cells from immunised Balb/c mice were fused with cells of the mouse SP2/0 myeloma cell line.
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.
References	1. Reddy, B. M. <i>et al.</i> (1993) Antigenic determinants of human serum retinol binding protein as probed with monoclonal antibodies Mol Immunol. 30: 1355-60 2. Sundaram, M. <i>et al.</i> (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
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.
Shelf Life	18 months from date of despatch.
Health And Safety Information	Material Safety Datasheet Documentation #10040 available at: https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR8...)	DyLight®800
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP

Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®549 , DyLight®649 , DyLight®680 , DyLight®800 , FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Human Anti Mouse IgG1 (HCA036...)	HRP
Goat Anti Mouse IgG (STAR70...)	FITC

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Printed on 26 May 2017

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