

Datasheet: MCA4655 BATCH NUMBER 160714

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:	lgG1		
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 supernatant	A from tissue culture
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: P02753 Related reagents Entrez Gene: 5950 RBP4 Related reagents
RRID	AB_2179256
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	 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 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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA4655 10040

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) HRP
Rabbit Anti Mouse IgG (STAR12...) RPE

Goat Anti Mouse IgG IgA IgM (STAR87...) Alk. Phos., HRP

Goat Anti Mouse IgG (STAR76...) RPE

Goat Anti Mouse IgG (Fc) (STAR120...) FITC, HRP

Rabbit Anti Mouse IgG (STAR13...) HRP
Goat Anti Mouse IgG (STAR70...) FITC

Goat Anti Mouse IgG (H/L) (STAR117...) Alk. Phos., DyLight®488, DyLight®550,

DyLight®650, DyLight®680, DyLight®800,

FITC, HRP

Rabbit Anti Mouse IgG (STAR9...) FITC

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets 'M367817:200529'

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