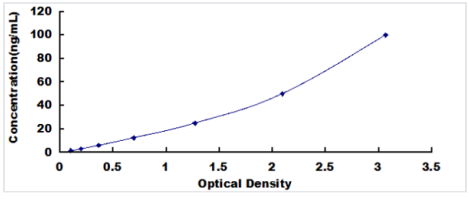
Retinol Binding Protein 4, Plasma (RBP4) ELISA Kit for Rat

PRODUCT OVERVIEW

Product Name	Retinol Binding Protein 4, Plasma (RBP4), ELISA Kit
Full Product Name	Rat Retinol Binding Protein 4, Plasma (RBP4) ELISA Kit
Product Gene Name	RBP4 elisa kit
Product Synonym Names	PRBP; RBP; Plasma retinol-binding protein
Species Reactivity	Rat
Assay Type	Sandwich
Samples	Serum, plasma, tissue homogenates, cell lysates, cell culture supernates and other biological fluids.
Detection Range	1.56-100ng/mL
Sensitivity	0.55ng/mL
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Molecular Weight	23,220 Da
3D Structure	ModBase 3D Structure for P04916
Intra Assay	CV<10%
Inter Assay	CV<12%
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for RBP4 elisa kit	MBS450220 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Retinol Binding Protein 4, Plasma (RBP4) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing RBP4. The ELISA analytical biochemical technique of the MBS450220 kit is based on RBP4 antibody-RBP4 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect RBP4 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, RBP4. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of RBP4 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Typical Testing Data/Standard Curve (for reference only) of RBP4 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RBP4. It may not necessarily be applicable to this product.

NCBI GI #	158187535

NCBI GeneID	25703
NCBI Accession #	NP_037294.1
UniProt Primary Accession #	P04916
UniProt Related Accession #	P04916
GenBank Nucleotide #	NM_013162.1
NCBI Official Full Name	retinol-binding protein 4
NCBI Official Synonym Full Names	retinol binding protein 4
NCBI Official Symbol	Rbp4
NCBI Official Synonym Symbols	RBPA
UniProt Protein Name	Retinol-binding protein 4
UniProt Synonym Protein Names	Plasma retinol-binding protein; PRBP; RBP
Protein Family	Retinol-binding protein
UniProt Gene Name	Rbp4
UniProt Synonym Gene Names	PRBP; RBP
NCBI Protein Information	retinol-binding protein 4
NCBI Summary for RBP4	may play a role in vitamin A transport [RGD, Feb 2006]
UniProt Comments for RBP4	Delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP-retinol complex interacts with transthyretin, this prevents its loss by filtration through the kidney glomeruli.
Research Articles on RBP4	**1.** RBP4 levels increased by 2-fold in the serum of nonobese Goto-Kakizaki rats but not high-fat diet fed rats.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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