RBP4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RBP4, Polyclonal Antibody
Full Product Name	RBP4 Antibody
Product Gene Name	anti-RBP4 antibody
Product Synonym Names	Retinol-binding protein 4; Plasma retinol-binding protein; PRBP; RBP; RBP4; PRO2222
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid
Purity/Purification	>95%,Protein G purified
Preparation and Storage	Shipped at 4 degree C. Upon delivery, aliquot and store at -20 degree C or -80 degree C.
Matching Pairs	Unconjugated Antibody: RBP4 (MBS7003516) Biotin Conjugated Antibody: RBP4 (MBS7003758)
Matching Pairs	Unconjugated Antibody: RBP4 (MBS7003516) FITC Conjugated Antibody: RBP4 (MBS7006099)
Matching Pairs	Unconjugated Antibody: RBP4 (MBS7003516) HRP Conjugated Antibody: RBP4 (MBS7006313)
Molecular Weight	23,010 Da
OMIM	180250
3D Structure	ModBase 3D Structure for P02753
Immunogen	Recombinant human Retinol-binding protein 4 protein
Conjugation	Non-conjugated
Storage Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Santa Cruz Alternative	Potential replacement for Santa Cruz Biotechnology antibody catalog# sc-27792 / sc-25850
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RBP4 antibody	ELISA (EIA)
Related Product Information for anti-RBP4 antibody	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.
Other Notes	Small volumes of anti-RBP4 antibody 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.
Searchable Terms for RBP4 purchase	MBS7003516 is an antibody targeting RBP4. Also known as RBP4 Antibody. Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

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

NCBI GI #	55743122
NCBI GeneID	5950
NCBI Accession #	NP_006735.2
UniProt Primary Accession #	P02753
UniProt Secondary Accession #	O43478; O43479; Q5VY24; Q8WWA3; Q9P178; D3DR38
UniProt Related Accession #	P02753
GenBank Nucleotide #	NM_006744.3
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	RDCCAS; MCOPCB10
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
UniProt Entry Name	RET4_HUMAN
NCBI Protein Information	retinol-binding protein 4
NCBI Summary for RBP4	This protein belongs to the lipocalin family and is the specific carrier for retinol (vitamin A alcohol) in the blood. It delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP-retinol complex interacts with transthyretin which prevents its loss by filtration through the kidney glomeruli. A deficiency of vitamin A blocks secretion of the binding protein posttranslationally and results in defective delivery and supply to the epidermal cells. [provided by RefSeq, Jul 2008]
UniProt Comments for RBP4	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. Defects in RBP4 are a cause of retinol-binding protein deficiency (RBP deficiency). This condition causes night vision problems. It produces a typical 'fundus xerophthalmicus', featuring a progressed atrophy of the retinal pigment epithelium. Belongs to the calycin superfamily. Lipocalin family. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 10q23.33 Cellular Component: cytosol; extracellular region; extracellular space; protein complex Molecular Function: protein binding; protein heterodimerization activity; retinal binding; retinol binding Biological Process: cardiac muscle development; embryonic organ morphogenesis; embryonic retina morphogenesis in camera-type eye; embryonic skeletal development; eye development; fat-soluble vitamin metabolic process; female genitalia morphogenesis; gluconeogenesis; glucose homeostasis; heart development; lung development; maintenance of gastrointestinal epithelium; negative regulation of cardiac muscle cell proliferation; phototransduction, visible light; positive regulation of immunoglobulin secretion; positive regulation of insulin secretion; response to ethanol; response to retinoic acid; retinoid metabolic process; retinol metabolic process; urinary bladder development; uterus development; vagina development; visual perception; vitamin metabolic process Disease: Microphthalmia, Isolated, With Coloboma 10; Retinal Dystrophy, Iris Coloboma, And Comedogenic Acne Syndrome

Research Articles on RBP4	**1.** This review attempts to describe and summarize the variety of published mechanisms of how RBP4 can interfere with insulin signaling; these mechanisms are dissected in regard to involving retinol transport and newly-identified RBP4 membrane receptors. [Review]
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.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
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.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/polyclonal-human-antibody/rbp4/7003516