RBP4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RBP4, Polyclonal Antibody
Full Product Name	RBP4 Rabbit pAb
Product Gene Name	anti-RBP4 antibody
Product Synonym Names	RDCCAS; MCOPCB10
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% Sodium Azide, 50% Glycerol, pH 7.3.
Purity/Purification	Affinity Purified
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	23kDa
OMIM	180250
3D Structure	ModBase 3D Structure for P02753
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 19-201 of human RBP4 (NP_006735.2).
Cellular Localization	Secreted
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RBP4 antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-RBP4 antibody	WB: 1:500-1:2000 IHC: 1:50-1:200
Related Product Information for anti-RBP4 antibody	Retinol-binding protein that mediates retinol transport in blood plasma (PubMed:5541771). Delivers retinol from the liver stores to the peripheral tissues (Probable). Transfers the bound all-trans retinol to STRA6, that then facilitates retinol transport across the cell membrane (PubMed:22665496).
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	MBS8548372 is an antibody targeting RBP4. Also known as RBP4 Rabbit pAb. Reactive in Human, Mouse, Rat. 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 Related Accession #	P02753
GenBank Nucleotide #	NP_006735.2
NCBI Official Full Name	retinol-binding protein 4 isoform a
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
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; Secreted, signal peptide Chromosomal Location of Human Ortholog: 10q23.33 Cellular Component: extracellular space; protein complex; extracellular region; cytosol Molecular Function: protein binding; protein heterodimerization activity; retinol binding; retinal binding Biological Process: phototransduction, visible light; retinal metabolic process; heart development; embryonic skeletal development; maintenance of gastrointestinal epithelium; glucose homeostasis; uterus development; response to insulin stimulus; embryonic organ morphogenesis; negative regulation of cardiac muscle cell proliferation; retinol metabolic process; detection of light stimulus involved in visual perception; retinoid metabolic process; female genitalia morphogenesis; cardiac muscle development; response to retinoic acid; urinary bladder development; male gonad development; vagina development; positive regulation of insulin secretion; positive regulation of immunoglobulin secretion; gluconeogenesis; response to ethanol; eye development; embryonic retina morphogenesis in camera-type eye; spermatogenesis; lung development Disease: Retinal Dystrophy, Iris Coloboma, And Comedogenic Acne Syndrome; Microphthalmia, Isolated, With Coloboma 10
Research Articles on RBP4	**1.** Elevated serum levels of RBP4 at admission were associated with severity and prognosis of ischemic stroke patients.

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