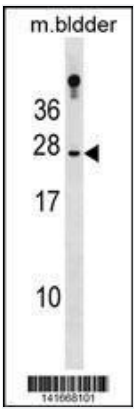
RBP4 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RBP4, Polyclonal Antibody
Full Product Name	RBP4, NT (RBP4, Retinol-binding protein 4, Plasma retinol-binding protein, Plasma retinol-binding protein(1-182), Plasma retinol-binding protein(1-181), Plasma retinol-binding protein(1-179), Plasma retinol-binding protein(1-176))
Product Gene Name	anti-RBP4 antibody
Product Synonym Names	Anti -RBP4, NT (RBP4, Retinol-binding protein 4, Plasma retinol-binding protein, Plasma retinol-binding protein(1-182), Plasma retinol-binding protein(1-181), Plasma retinol-binding protein(1-179), Plasma retinol-binding protein(1-176))
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2, 0.09% sodium azide.
Purity/Purification	Affinity Purified Purified by Protein A affinity chromatography.
Specificity	Mouse
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	23,010 Da
Chromosome Location	Chromosome: 10; NC_000010.10 (95351593..95361101, complement). Location: 10q23-q24
OMIM	180250
3D Structure	ModBase 3D Structure for P02753
Immunogen	RBP4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 11-40 amino acids from the N-terminal region of human RBP4.
Product Categories/Family for anti-RBP4 antibody	Antibodies; Abs to Binding Proteins
Applications Tested/Suitable for anti-RBP4 antibody	ELISA (EL/EIA), Western Blot (WB)
Application Notes for anti-RBP4 antibody	Suitable for use in Western Blot, ELISA Dilution: ELISA: 1:1,000 Western Blot: 1:100-500
Related Product Information for anti-RBP4 antibody	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.
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	MBS641951 is an antibody targeting RBP4. Also known as RBP4, NT (RBP4, Retinol-binding protein 4, Plasma retinol-binding protein, Plasma retinol-binding protein(1-182), Plasma retinol-binding protein(1-181), Plasma retinol-binding protein(1-179), Plasma retinol-binding protein(1-176)). Reactive in Mouse. Host: Rabbit.



Western Blot (WB) of anti-RBP4 antibody
RBP4 Antibody (N-term) western blot analysis in mouse bladder tissue lysates (35ug/lane).This demonstrates the RBP4 antibody detected the RBP4 protein (arrow).

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, plasma
NCBI Official Symbol	RBP4
NCBI Official Synonym Symbols	RDCCAS
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; RBP; PRBP; plasma retinol-binding protein; retinol-binding protein 4, interstitial

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; retinol metabolic process; negative regulation of cardiac muscle cell proliferation; 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; positive regulation of insulin secretion; vagina development; 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 RBP4 is associated with the morbidity of cholesterol gallstones and metabolic syndrome.
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