

Rabbit RBP4 Polyclonal Antibody | anti-RBP4 antibody

Anti-RBP4 Antibody, Rabbit Polyclonal

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA254354	Rabbit	Human Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology)	Immunohistochemistry

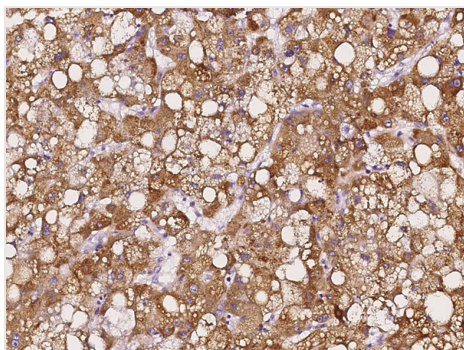
PRODUCT SYNONYMS

RBP4; Polyclonal Antibody; Anti-RBP4 Antibody; Rabbit Polyclonal; RBP4 Antibody; Rabbit PAb; Antigen Affinity Purified; retinol binding protein 4; plasma; Anti-RDCCAS Antibody; anti-RBP4 antibody

PRODUCT SPECIFICATIONS

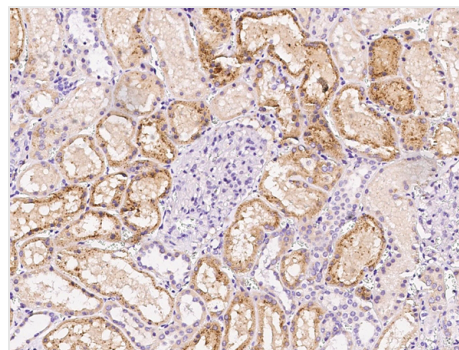
Host	Rabbit
Reactivity	Human Predicted to React with: Mouse, Rat (Species predicted to react based on 100% sequence homology)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human RBP4
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-RBP4 antibody	IHC (Immunohistochemistry)
Immunogen	A synthetic peptide corresponding to the center region of the Human RBP4
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with a synthetic peptide corresponding to the center region of the Human RBP4, and purified by antigen affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunochemical staining of human RBP4 in human hepatoma with rabbit polyclonal antibody (1:2000, formalin-fixed paraffin embedded sections).



IHC (Immunohistochemistry)

Immunochemical staining of human RBP4 in human kidney with rabbit polyclonal antibody (1:2000, formalin-fixed paraffin embedded sections).

ADDITIONAL INFORMATION

Related Product Information for anti-RBP4 antibody	Retinol-binding protein 4 (RBP4) is the specific carrier for retinol (also known as vitamin A), and is responsible for the conversion of unstable and insoluble retinol in aqueous solution into stable and soluble complex in plasma through their tight interaction. As a member of the lipocalin superfamily, RBP4 containing a beta-barrel structure with a well-defined cavity is secreted from the liver, and in turn delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP4-retinol complex interacts with transthyretin (TTR), and this binding is crucial for preventing RBP4 excretion through the kidney glomeruli. RBP4 expressed from an ectopic source efficiently delivers retinol to the eyes, and its deficiency affects night vision largely. Recently, RBP4 as an adipokine, is found to be expressed in adipose tissue and correlated with obesity, insulin resistance (IR) and type 2 diabetes (T2DM).
References	Yang Q, et al. (2005) Serum retinol binding protein 4 contributes to insulin resistance in obesity and type 2 diabetes. Nature. 436(7049): 356-62.Choi SH, et al. (2008) High plasma retinol binding protein-4 and low plasma adiponectin concentrations are associated with severity of glucose intolerance in women with previous gestational diabetes mellitus. J Clin Endocrinol Metab. 93(8): 3142-8.Tepper BJ, et al. (2010) Serum retinol-binding protein 4 (RBP4) and retinol in a cohort of borderline obese women with and without gestational diabetes. Clin Biochem. 43(3): 320-3.

NCBI AND UNIPROT INFORMATION

NCBI GI #	55743122
NCBI GeneID	5950
NCBI Accession #	NP_006735.2
NCBI GenBank Nucleotide #	NM_006744.3
UniProt Accession #	P02753; O43478; O43479; Q5VY24; Q8WWA3; Q9P178; D3DR38
Molecular Weight	23,010 Da
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
NCBI Protein Information	retinol-binding protein 4; RBP; PRBP; plasma retinol-binding protein; retinol-binding protein 4, interstitial
UniProt Protein Name	Retinol-binding protein 4
UniProt Gene Name	RBP4
UniProt Synonym Gene Names	PRBP; RBP
UniProt Entry Name	RET4_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.