

**Goat Anti-RBP4 Antibody**  
**Peptide-affinity purified goat antibody**  
**Catalog # AF1920b****Specification**

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**Goat Anti-RBP4 Antibody - Product Information**

Application	WB, E
Primary Accession	<a href="#">P02753</a>
Other Accession	<a href="#">NP_006735</a> , <a href="#">5950</a> , <a href="#">19662 (mouse)</a> , <a href="#">25703 (rat)</a>
Reactivity	Human
Predicted	Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Concentration	100ug/200ul
Isotype	IgG
Calculated MW	23010

**Goat Anti-RBP4 Antibody - Additional Information****Gene ID** 5950**Other Names**

Retinol-binding protein 4, Plasma retinol-binding protein, PRBP, RBP, Plasma retinol-binding protein(1-182), Plasma retinol-binding protein(1-181), Plasma retinol-binding protein(1-179), Plasma retinol-binding protein(1-176), RBP4

**Dilution**

WB~~1:1000

E~~N/A

**Format**

0.5 mg IgG/ml in Tris saline (20mM Tris pH7.3, 150mM NaCl), 0.02% sodium azide, with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Goat Anti-RBP4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Goat Anti-RBP4 Antibody - Protein Information****Name** RBP4**Function**

Retinol-binding protein that mediates retinol transport in blood plasma (PubMed:<a href="http://www.uniprot.org/citations/5541771" target="\_blank">5541771</a>). 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:<a href="http://www.uniprot.org/citations/22665496" target="\_blank">22665496</a>).

#### Cellular Location

Secreted

#### Tissue Location

Detected in blood plasma and in urine (at protein level).

### Goat Anti-RBP4 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### Goat Anti-RBP4 Antibody - Images



AF1920b (0.3 µg/ml) staining of human skin lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

### Goat Anti-RBP4 Antibody - Background

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.

## **Goat Anti-RBP4 Antibody - References**

[Expression and regulation of retinol binding protein 4 mRNA in human adipose tissue in obese and type 2 diabetics] Liu XH, et al. Zhonghua Yi Xue Za Zhi, 2010 May 11. PMID 20646597.

Case-control analysis of SNPs in GLUT4, RBP4 and STRA6: association of SNPs in STRA6 with type 2 diabetes in a South Indian population. Nair AK, et al. PLoS One, 2010 Jul 6. PMID 20625434.

Decreased retinol binding protein 4 concentrations are associated with cholesterol gallstone disease. Wang SN, et al. J Formos Med Assoc, 2010 Jun. PMID 20610143.

Retinol-binding protein 4 levels in obese children and adolescents with glucose intolerance. Yeste D, et al. Horm Res Paediatr, 2010. PMID 20389103.

Association of plasma retinol-binding protein 4, adiponectin, and high molecular weight adiponectin with insulin resistance in non-diabetic hypertensive patients. Shim CY, et al. Yonsei Med J, 2010 May. PMID 20376890.