

Goat Anti-RBP4 Antibody

Peptide-affinity purified goat antibody Catalog # AF1920b

Specification

Goat Anti-RBP4 Antibody - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Concentration Isotype Calculated MW WB, E <u>P02753</u> <u>NP_006735, 5950, 19662 (mouse), 25703 (rat)</u> Human Mouse, Rat, Dog Goat Polyclonal 100ug/200ul IgG 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 lgG/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: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).

Cellular Location Secreted

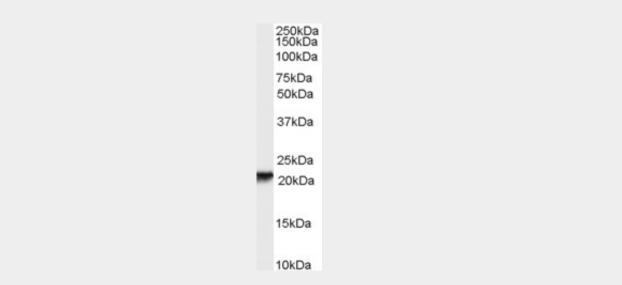
Tissue Location Detected in blood plasma and in urine (at protein level).

Goat Anti-RBP4 Antibody - Protocols

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

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

Goat Anti-RBP4 Antibody - Images



AF1920b (0.3 μ g/ml) staining of human skin lysate (35 μ g 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.