

Anti-RBP4 Picoband Antibody
Catalog # ABO12051**Specification****Anti-RBP4 Picoband Antibody - Product Information**

Application	WB
Primary Accession	P02753
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Retinol-binding protein 4(RBP4) detection. Tested with WB, ELISA in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-RBP4 Picoband 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

Calculated MW

23010 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat, -
ELISA , 0.1-0.5 µg/ml, Human

Subcellular Localization

Secreted.

Protein Name

Retinol-binding protein 4

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg Na₃.

Immunogen

E.coli-derived human RBP4 recombinant protein (Position: E19-201L). Human RBP4 shares 86% amino acid (aa) sequence identity with both mouse and rat RBP4.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Belongs to the calycin superfamily. Lipocalin family.

Anti-RBP4 Picoband Antibody - Protein Information

Name RBP4

Function

Retinol-binding protein that mediates retinol transport in blood plasma (PubMed:[5541771](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/22665496)).

Cellular Location

Secreted

Tissue Location

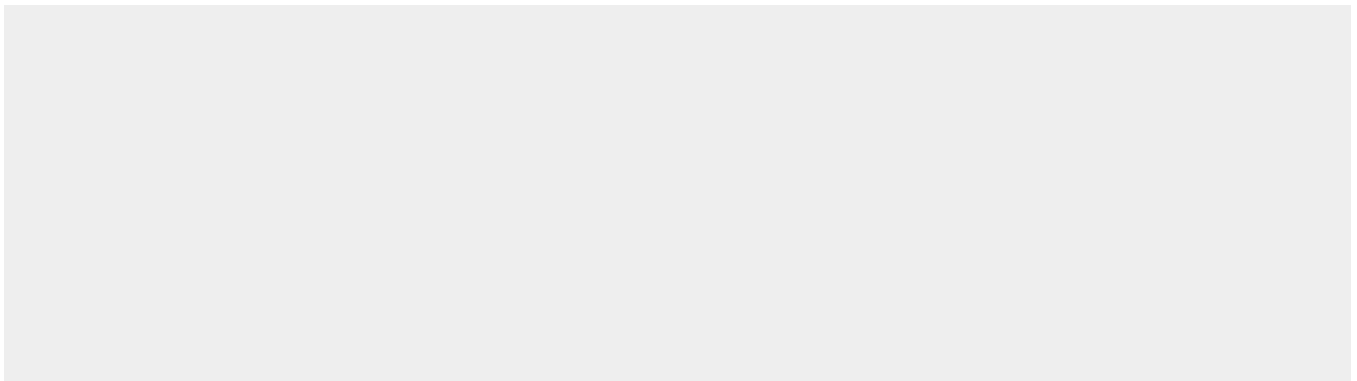
Detected in blood plasma and in urine (at protein level).

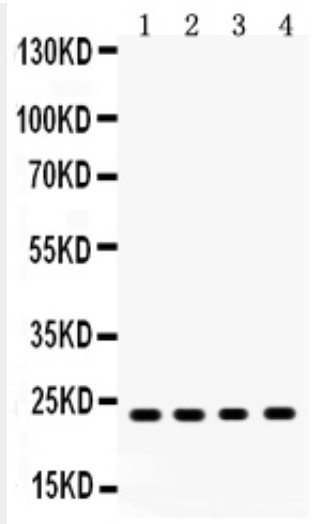
Anti-RBP4 Picoband Antibody - Protocols

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](#)

Anti-RBP4 Picoband Antibody - Images





Anti-RBP4 Picoband antibody, ABO12051, Western blotting All lanes: Anti RBP4 (ABO12051) at 0.5ug/ml Lane 1: Rat Liver Tissue Lysate at 50ug Lane 2: Mouse Liver Tissue Lysate at 50ug Lane 3: HEPG2 Whole Cell Lysate at 40ug Lane 4: COLO320 Whole Cell Lysate at 40ug Predicted bind size: 23KD Observed bind size: 23KD

Anti-RBP4 Picoband Antibody - Background

RBP4 is also known as RDCCAS. 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.