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Anti-RBP4 Picoband Antibody

Catalog # ABO12051

Product Information

Application	WB, IHC, IHC-P, E
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.

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
Application Details	Western blot, 0.1-0.5 □g/ml, Human, Mouse, Rat, - ELISA , 0.1-0.5 □g/ml, Human
Subcellular Localization	Secreted.
Source	Eukaryota
Protein Name	Retinol-binding protein 4
Contents	Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
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 r˚Constitution, 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.

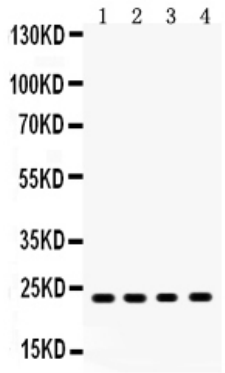
Protein Information

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).

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.

Images



Anti-RBP4 Picoband antibody, ABO12051, Western blottingAll lanes: Anti RBP4 (ABO12051) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Mouse Liver Tissue Lysate at 50ugLane 3: HEPG2 Whole Cell Lysate at 40ugLane 4: COLO320 Whole Cell Lysate at 40ugPredicted bind size: 23KDObserved bind size: 23KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.