

Datasheet for ABIN3043369
anti-RBP4 antibody (AA 19-201)



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1 Image

Overview

Quantity:	100 µg
Target:	RBP4
Binding Specificity:	AA 19-201
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RBP4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)

Product Details

Purpose:	Anti-RBP4 Antibody Picoband®
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.
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-RBP4 Antibody Picoband® (ABIN3043369). Tested in ELISA, IHC, WB applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	RBP4
Alternative Name:	RBP4 (RBP4 Products)
Background:	Synonyms: 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, PRO2222, Tissue Specificity: Highly expressed in fibroblasts, some expression in T- and B-lymphocytes, and little or no expression in Burkitt's lymphoma cell lines. Expressed in many hormone-independent mammary carcinoma cell lines. . 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. Sequence Similarities: Belongs to the calycin superfamily. Lipocalin family.
Molecular Weight:	23 kDa
Gene ID:	5950
UniProt:	P02753
Pathways:	Regulatory RNA Pathways , Positive Regulation of Peptide Hormone Secretion , Carbohydrate Homeostasis , Production of Molecular Mediator of Immune Response

Application Details

Application Notes:	Western blot, 0.1-0.5 µg/mL, Human, Mouse, Rat, - Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human, Mouse ELISA, 0.1-0.5 µg/mL, - 1. Cubedo J, et al. Retinol-binding protein 4 levels and susceptibility to ischaemic events in men. Eur J Clin Invest, 2014. 2. Li F, et al. Retinol-binding protein 4 as a novel risk factor for cardiovascular disease in patients with coronary artery disease and hyperinsulinemia. Am J Med Sci, 2014 Dec. 3. Saucedo R, et al. RBP4 gene variants are associated with insulin resistance in women with previous gestational diabetes. Dis Markers, 2014.
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na2HPO4, 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Images



Western Blotting

Image 1. Anti-RBP4 Picoband antibody, Western blotting All lanes: Anti RBP4 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