

Datasheet for ABIN3043369

anti-RBP4 antibody (AA 19-201)





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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%	
la atoma co	amino acid (aa) sequence identity with both mouse and rat RBP4.	
Isotype:	lgG	
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.	

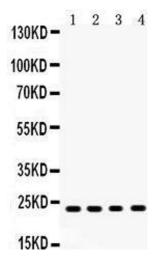
Target Details

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 $\mu g/mL$.
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