antibodies.com

Datasheet for ABIN967847 anti-RBP4 antibody (AA 1-135)

4 Images

5 Publications



Overview

Quantity:	50 µg	
Target:	RBP4	
Binding Specificity:	AA 1-135	
Reactivity:	Human, Mouse, Rat, Chicken, Dog	
Host:	Mouse	
Clonality:	Monoclonal	
Conjugate:	This RBP4 antibody is un-conjugated	
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunoprecipitation (IP), Immunofluorescence (IF)	

Product Details

Immunogen:	Human RBP aa. 1-135		
Clone:	42-RBP		
Isotype:	lgG1		
Cross-Reactivity:	Dog (Canine), Chicken, Mouse (Murine), Rat (Rattus)		
Characteristics:	1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.		
	2. Please refer to us for technical protocols.		
	3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide		
	compounds in running water before discarding to avoid accumulation of potentially explosive		
	deposits in plumbing.		
	4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.		

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN967847 | 02/13/2024 | Copyright antibodies-online. All rights reserved.

Product Details

Purification:

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

Target Details

Target:	RBP4
Alternative Name:	RBP (RBP4 Products)
Background:	Retinol, a metabolic precursor of retinal and retinoic acid, is transported in plasma bound to a
	carrier protein known as retinol-binding protein (RBP). RBP is the only retinoid-specific binding
	protein that has been identified in plasma. The presence of RBP increases the stability of retine
	as it is transported from its stores to target cells. In plasma, the 21 kDa RBP forms a tight
	complex with thyroxine-binding transthyretin (TTR), a homotetramer of about 55 kDa.
	Association of RBP with TTR increases the stability of the retinol-RBP complex. It is believed
	that this association prevents filtration of the relatively small RBP through the kidney glomerul
	Once retinol is delivered to its target cells, the resulting retinol-free RBP has a reduced affinity
	for TTR and thus can be selectively cleared from the circulation by filtration through kidney
	glomeruli. The three dimensional structures of human and bovine RBP have been compared
	and appear to be very similar.
Molecular Weight:	21 kDa
Pathways:	Regulatory RNA Pathways, Positive Regulation of Peptide Hormone Secretion, Carbohydrate
	Homeostasis, Production of Molecular Mediator of Immune Response

Application Details

Comment:	Related Products: ABIN967389, ABIN968619	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	250 μg/mL	
Buffer:	Aqueous buffered solution containing BSA, glycerol, and ≤ 0.09 % sodium azide.	
Preservative:	Sodium azide	
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which	

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN967847 | 02/13/2024 | Copyright antibodies-online. All rights reserved.

Handling	
	should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store undiluted at -20°C.
Publications	
Product cited in:	Christensen, Moskaug, Vorum, Jacobsen, Gundersen, Nykjaer, Blomhoff, Willnow, Moestrup: '

Evidence for an essential role of megalin in transepithelial transport of retinol." in: **Journal of the American Society of Nephrology : JASN**, Vol. 10, Issue 4, pp. 685-95, (1999) (PubMed).

Zanotti, Berni, Monaco: "Crystal structure of liganded and unliganded forms of bovine plasma retinol-binding protein." in: **The Journal of biological chemistry**, Vol. 268, Issue 15, pp. 10728-38, (1993) (PubMed).

Zanotti, Malpeli, Berni: "The interaction of N-ethyl retinamide with plasma retinol-binding protein (RBP) and the crystal structure of the retinoid-RBP complex at 1.9-A resolution." in: **The Journal of biological chemistry**, Vol. 268, Issue 33, pp. 24873-9, (1993) (PubMed).

Zanotti, Ottonello, Berni, Monaco: "Crystal structure of the trigonal form of human plasma retinol-binding protein at 2.5 A resolution." in: **Journal of molecular biology**, Vol. 230, Issue 2, pp. 613-24, (1993) (PubMed).

Blomhoff, Green, Berg, Norum: "Transport and storage of vitamin A." in: Science (New York, N.Y.), Vol. 250, Issue 4979, pp. 399-404, (1990) (PubMed).



Western Blotting

Image 1. Western blot analysis of RBP on MDCK lysate. Lane 1: 1:1000, lane 2: 1:2000, lane 3: 1:4000 dilution of RBP.

Immunofluorescence

Image 2. Immunofluorescence staining of Rabbit Kidney

		Image 3.	
Generated from	m human RBP	135	
N	Immunogen		

Please check the product details page for more images. Overall 4 images are available for ABIN967847.

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN967847 | 02/13/2024 | Copyright antibodies-online. All rights reserved.