

For Research Use Only

# RBP4 Monoclonal antibody

Catalog Number: 66104-1-Ig **1 Publications**



## Basic Information

<b>Catalog Number:</b> 66104-1-Ig	<b>GenBank Accession Number:</b> BC020633	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2100 ug/ml by Nanodrop and 1213 ug/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5950	<b>CloneNo.:</b> 1D12B11
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> P02753	<b>Recommended Dilutions:</b> WB 1:1000-1:8000 IHC 1:20-1:200 IF-P 1:200-1:800 IF/ICC 1:1500-1:6000
<b>Isotype:</b> IgG2a	<b>Full Name:</b> retinol binding protein 4, plasma	
<b>Immunogen Catalog Number:</b> AG19295	<b>Calculated MW:</b> 201 aa, 23 kDa	
	<b>Observed MW:</b> 23 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IF-P, ELISA	<b>Positive Controls:</b> WB : Human Blood, tissue IHC : human liver cancer tissue, human liver tissue IF-P : human liver cancer tissue, IF/ICC : HepG2 cells,
<b>Cited Applications:</b> WB	
<b>Species Specificity:</b> human	
<b>Cited Species:</b> pig	

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

## Background Information

RBP4 (retinol-binding protein 4) is a carrier protein that transports vitamin A (retinol) from the liver to the peripheral tissues. Synthesized primarily by hepatocytes and adipocytes as a 21 kDa non-glycosylated protein, RBP4 is secreted into the circulation as a retinol-RBP4 complex. In plasma the RBP4-retinol complex is bound to transthyretin (TTR), which prevents prevent kidney filtration. Two truncated forms of RBP4, RBP4-L (truncated at Leu-183) and RBP4-LL (truncated at Leu-182 and Leu-183), exist by proteolytic process. RBP4-L and RBP4-LL, which do not bind TTR, are normally excreted into the urine but accumulate in the serum during renal failure. Urinary RBP4 has been reported as marker for glomerular disease. RBP4 also was identified as an adipokine that elevated in some INS-resistant states. Measurement of serum RBP4 could be used to assess the risk of INS resistance, type 2 diabetes, obesity, and cardiovascular disease. (18752671, 16034410)

## Notable Publications

Author	Pubmed ID	Journal	Application
Qingbing Han	39500783	Commun Biol	WB

## Storage

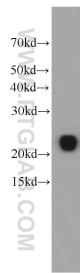
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

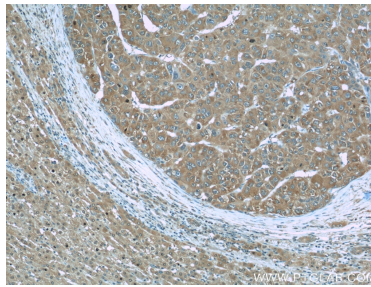
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

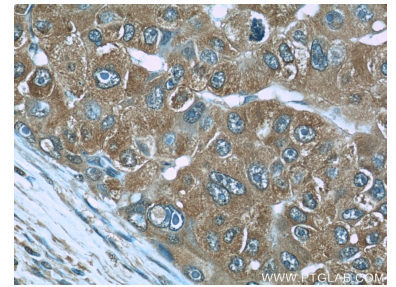
## Selected Validation Data



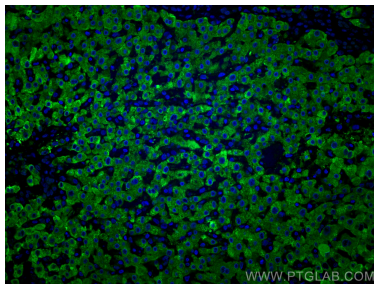
human blood were subjected to SDS PAGE followed by western blot with 66104-1-Ig (RBP4 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



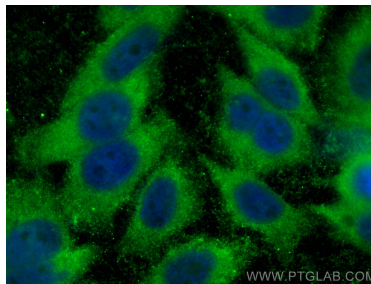
Immunohistochemical analysis of paraffin-embedded human liver cancer slide using 66104-1-Ig (RBP4 Antibody) at dilution of 1:50.



Immunohistochemical analysis of paraffin-embedded human liver cancer slide using 66104-1-Ig (RBP4 Antibody) at dilution of 1:50.



Immunofluorescent analysis of (4% PFA) fixed human liver cancer tissue using RBP4 antibody (66104-1-Ig, Clone: 1D12B11 ) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).



Immunofluorescent analysis of (-20°C Ethanol) fixed HepG2 cells using RBP4 antibody (66104-1-Ig, Clone: 1D12B11 ) at dilution of 1:3000 and CoraLite®488-Conjugated Goat Anti-Mouse IgG(H+L).