

RBP4 Monoclonal antibody

Catalog Number: 66104-1-Ig

Basic Information

Catalog Number: 66104-1-Ig	GenBank Accession Number: BC020633	Purification Method: Protein A purification
Size: 2100 µg/ml	GeneID (NCBI): 5950	CloneNo.: 1D12B11
Source: Mouse	UNIPROT ID: P02753	Recommended Dilutions: WB 1:1000-1:8000 IHC 1:20-1:200 IF 1:1500-1:6000
Isotype: IgG2a	Full Name: retinol binding protein 4, plasma	
Immunogen Catalog Number: AG19295	Calculated MW: 201 aa, 23 kDa	
	Observed MW: 23 kDa	

Applications

Tested Applications:
FC, IF/ICC, IF-P, IHC, WB, ELISA

Species Specificity:
human

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

Positive Controls:

WB : Human Blood, tissue

IHC : human liver cancer tissue, human liver tissue

IF : HepG2 cells, human liver cancer tissue

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 (TRR), 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)

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

For technical support and original validation data for this product please contact:

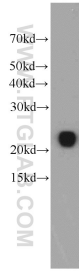
T: 4006900926

E: Proteintech-CN@ptglab.com

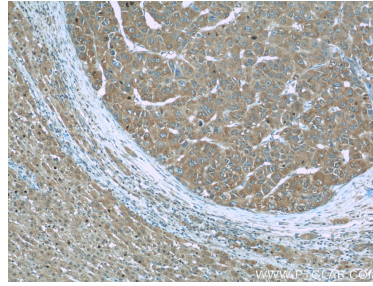
W: ptgcn.com

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

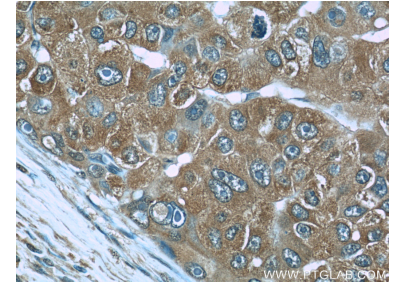
Selected Validation Data



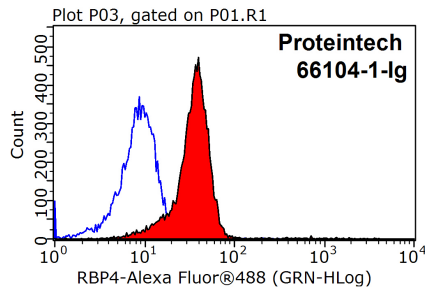
human blood were subjected to SDS PAGE followed by western blot with 66104-1-Ig (RBP4 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



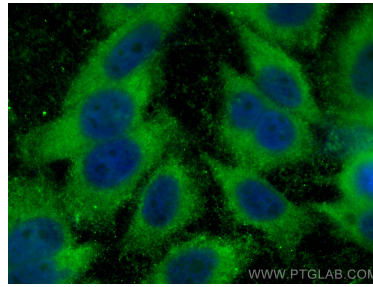
Immunohistochemical analysis of paraffin-embedded human liver cancer slide using 66104-1-Ig (RBP4 Antibody) at dilution of 1:50.



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



1X10⁶ HepG2 cells were stained with 0.2ug RBP4 antibody (66104-1-Ig, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L) with dilution 1:1000.



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 AffiniPure Goat Anti-Mouse IgG(H+L).