For Research Use Only

RBP4 Monoclonal antibody

Catalog Number:66104-1-Ig Featured Product 1 Publications

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Basic Information

Catalog Number:
66104-1-Ig

Size:
150ul , Concentration: 2100 ug/ml by Nanodrop and 1213 ug/ml by Bradford method using BSA as the standard;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG19295

GenBank Accession Number:
BC020633

GeneID (NCBI):
5950

UNIPROT ID:
P02753

Full Name:
retinol binding protein 4, plasma

Calculated MW:
201 aa, 23 kDa

Observed MW:
23 kDa

Purification Method:
Protein A purification

CloneNo.:
1D12B11

Recommended Dilutions:
WB: 1:1000-1:8000
IHC: 1:20-1:200
IF-P: 1:200-1:800
IF/ICC: 1:1500-1:6000

Applications

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

Cited Applications:
WB

Species Specificity:
human

Cited Species:
pig

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, HepG2 cells, human plasma

IHC : human liver cancer tissue, human liver tissue

IF-P : human liver cancer tissue,

IF/ICC : HepG2 cells,

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)

Notable Publications

Author	Pubmed ID	Journal	Application
Qingbing Han	39500783	Commun Biol	WB

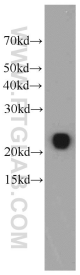
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

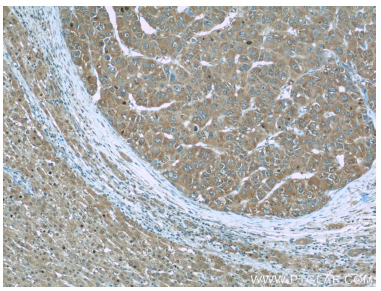
*** 20ul sizes contain 0.1% BSA

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

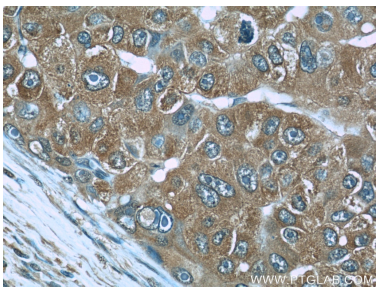
Selected Validation Data



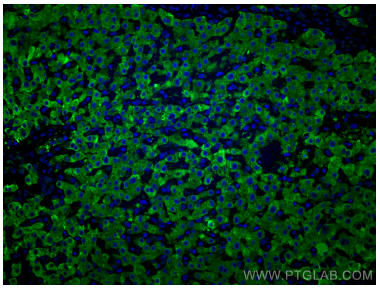
human blood were subjected to SDS PAGE followed by western blot with 66104-1-Ig (RBP4 antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



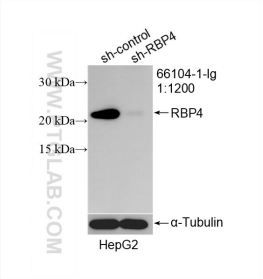
Immunohistochemical analysis of paraffin-embedded human liver cancer slide using 66104-1-Ig (RBP4 Antibody) at dilution of 1:50.



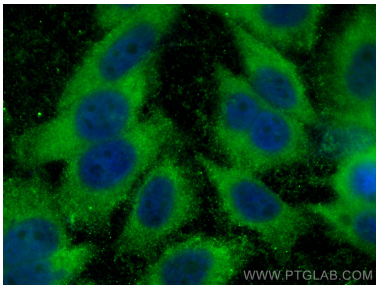
Immunohistochemical analysis of paraffin-embedded human liver cancer slide using 66104-1-Ig (RBP4 Antibody) at dilution of 1:50.



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



WB result of RBP4 antibody (66104-1-Ig; 1:1200; incubated at room temperature for 1.5 hours) with sh-Control and sh-RBP4 transfected HepG2 cells.



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).