

RBP4 Monoclonal Antibody

Catalog No: #42037

Orders: order@signalwayantibody.com

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Description

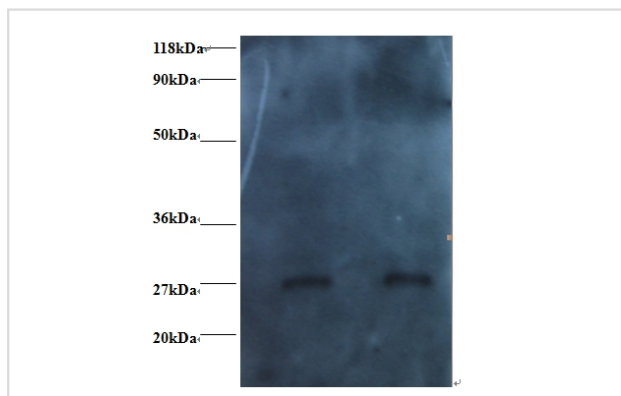
Product Name	RBP4 Monoclonal Antibody
Host Species	Mouse
Clonality	Monoclonal
Purification	protein G purified
Applications	WB IHC
Species Reactivity	Hu
Specificity	specific for native and denatured forms
Immunogen Type	protein
Immunogen Description	Recombinant Human Retinol-binding protein 4 protein
Target Name	RBP4
Other Names	Plasma retinol-binding protein, PRBP, RBP, RBP4, PRO2222
Accession No.	Swiss-Prot#: P02753
Uniprot	P02753
GeneID	5950;
Calculated MW	23kd
Concentration	1.0mg/mL
Formulation	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, PH 7.4
Storage	Store at -20°C

Application Details

Western blotting: □ 1:500 - 1:1000

Immunohistochemistry: 1:20 - 1:200

Images



All lanes : Mouse anti- human Retinol-binding protein 4

monoclonal antibody at 0.3ug/ml

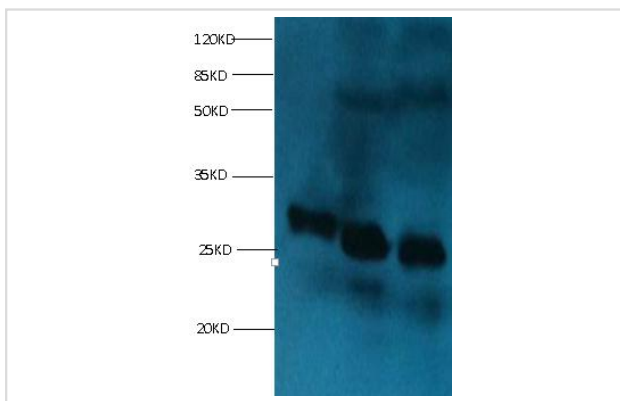
Lane 1: Human positive serum1:10

Lane 2: Human positive serum1:100

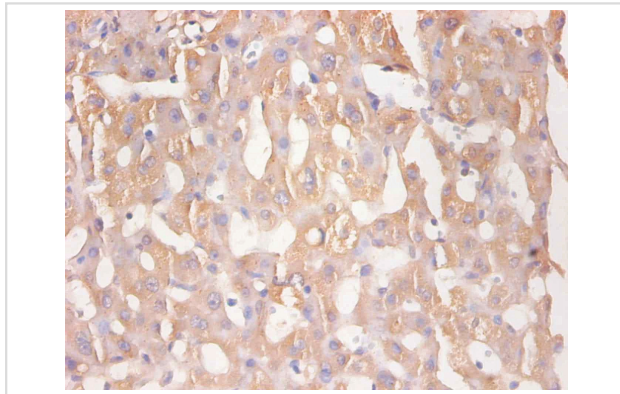
Secondary:HRP labeled Goat polyclonal to Mouse IgG at 1/3000 dilution

Predicted band size : 23kd

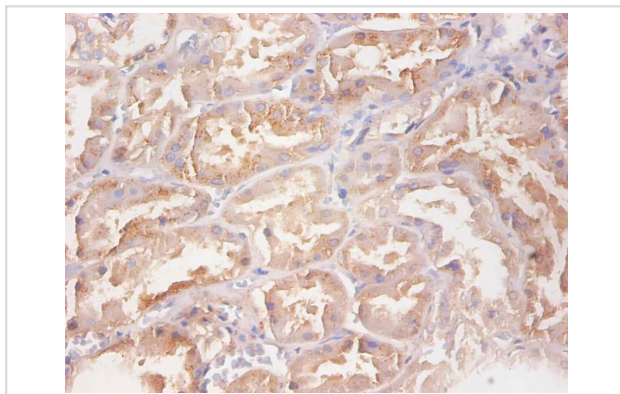
Observed band size : 27kd



All lanes : Mouse anti- human Retinol-binding protein 4 monoclonal antibody at 0.3ug/ml
 Lane 1:RBP4 transfected E.coli lysate
 Lane 2:Human positive serum1:100
 Lane 3:mouse liver tissue
 Secondary
 HRP labeled Goat polyclonal to Mouse IgG at 1/3000 dilution
 Predicted band size : 23kd
 Observed band size : 27kd



Immunohistochemical analysis of paraffin-embedded human hepatic tissue using #42037 at dilution of 1:200.



Immunohistochemical analysis of paraffin-embedded human nephridial tissue using #42037 at dilution of 1:200.

Background

Retinol (Vitamin A) is transported in the blood bound to its carrier protein, retinol-binding protein (RBP), also designated plasma retinol-binding protein (PRBP) or RBP4. A member of the lipocalin family, RBP conveys retinol from stores in the liver to peripheral tissues. In plasma, RBP binds transthyretin (TTR, formerly called prealbumin) to prevent glomerular filtration of low molecular weight RBP in the kidneys. The stability of this complex holds diagnostic importance because the molar ratio of RBP:TTR provides an indirect way to indicate marginal vitamin A deficiency. Vitamin A deficiency blocks the secretion of RBP resulting in defective delivery and supply to epidermal cells. Originally identified solely as a transporter protein, recent studies correlating increased levels of RBP expression in adipose tissue with insulin resistance have generated research into the possible roles the protein may play in the pathogenesis of type 2 diabetes and obesity.

References

[1] Zhou F, Huang Q, Dai X, Yin J, Wu J, Zhou H, Gong Z, Liu Z. Impact of retinol binding protein 4 polymorphism on rosiglitazone response in Chinese Type 2 diabetic patients. *Zhong Nan Da Xue Xue Bao Yi Xue Ban.* 2011 Oct;36(10):949-57. [2] Mellati AA, S

Note: This product is for in vitro research use only