Best Tools for immunology Research

RBP4 Monoclonal Antibody

Catalog No :	YM0554
Reactivity :	Human
Applications :	WB;IHC;IF;FCM;ELISA
Target :	RBP4
Gene Name :	RBP4
Protein Name :	Retinol-binding protein 4
Human Gene Id :	5950
Human Swiss Prot No :	P02753
Mouse Swiss Prot No :	Q00724
Immunogen :	Purified recombinant fragment of human RBP4 expressed in E. Coli.
Specificity :	RBP4 Monoclonal Antibody detects endogenous levels of RBP4 protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Monoclonal, Mouse
Dilution :	WB 1:500 - 1:2000. IHC 1:200 - 1:1000. IF 1:200 - 1:1000. Flow cytometry: 1:200 - 1:400. ELISA: 1:10000. Not yet tested in other applications.
Purification :	Affinity purification
Storage Stability :	-15°C to -25°C/1 year(Do not lower than -25°C)
Molecularweight :	23kD
P References :	1. Diabetologia. 2008 Aug;51(8):1423-8. 2. J Clin Endocrinol Metab. 2008 Aug;93(8):3142-8.

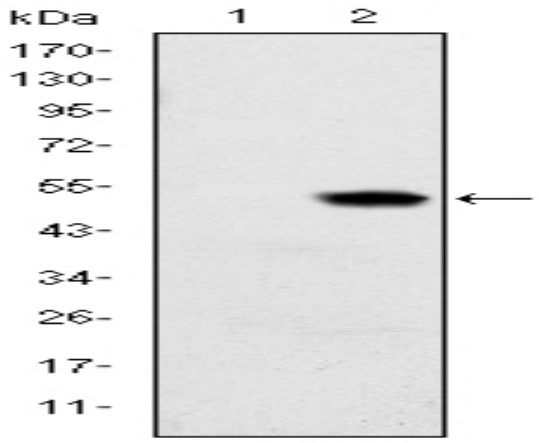
Background : retinol binding protein 4(RBP4) Homo sapiens This protein belongs to the lipocalin family and is the specific carrier for retinol (vitamin A alcohol) in the blood. It delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP-retinol complex interacts with transthyretin which prevents its loss by filtration through the kidney glomeruli. A deficiency of vitamin A blocks secretion of the binding protein posttranslationally and results in defective delivery and supply to the epidermal cells. [provided by RefSeq, Jul 2008],

Function : disease:A deficiency of vitamin A blocks secretion of the binding protein post-translationally and results in defective delivery and supply of vitamin to the epidermal cells (a condition associated with a dermatosis).,disease:Defects in RBP4 are a cause of retinol-binding protein deficiency [MIM:180250]. This condition causes night vision problems. It produces a typical "fundus xerophthalmicus," featuring a progressed atrophy of the retinal pigment epithelium.,function:Delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP-retinol complex interacts with transthyretin, this prevents its loss by filtration through the kidney glomeruli.,mass spectrometry: PubMed:12237133,mass spectrometry: PubMed:7666002,online information:Retina International's Scientific Newsletter,online information:Retinol-binding protein 4 entry,similarity:Belongs to the calycin superfamil

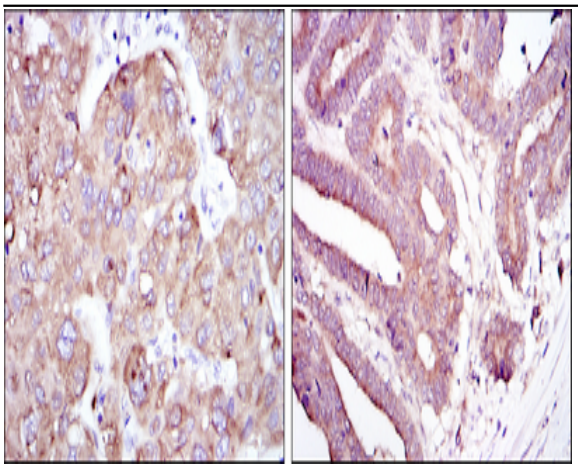
Subcellular Location : Secreted .

Expression : Detected in blood plasma and in urine (at protein level).

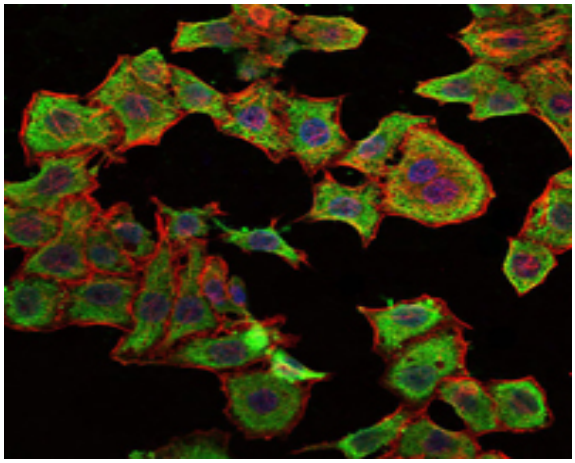
Products Images



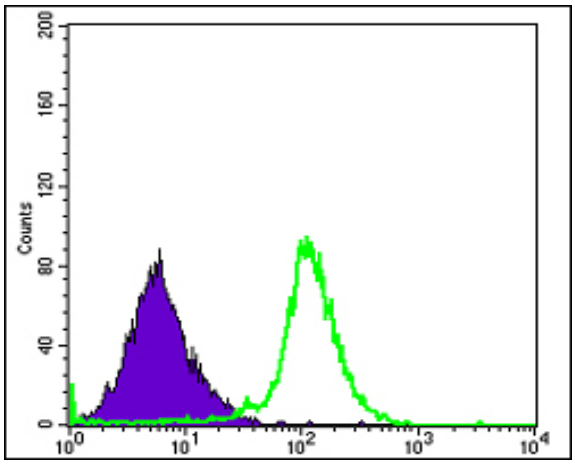
Western Blot analysis using RBP4 Monoclonal Antibody against HEK293 (1) and RBP4-hIgGFc transfected HEK293 (2) cell lysate.



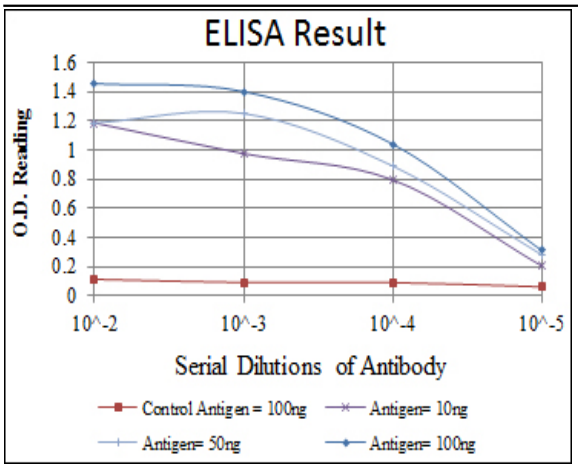
Immunohistochemistry analysis of paraffin-embedded liver cancer tissues (left) and stomach cancer tissues (right) with DAB staining using RBP4 Monoclonal Antibody.



Immunofluorescence analysis of HepG2 cells using RBP4 Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



Flow cytometric analysis of HepG2 cells using RBP4 Monoclonal Antibody (green) and negative control (purple).


ELISA Result
O.D. Reading
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
10^-2
10^-3
10^-4
10^-5
Serial Dilutions of Antibody
Control Antigen = 100ng
Antigen= 10ng
Antigen= 50ng
Antigen= 100ng