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Retinol Binding Protein-1 (RBP1) Antibody - With BSA and Azide

Mouse Monoclonal Antibody [Clone SPM442]
Catalog # AH10711

Product Information

Application	IF, IHC-P
Primary Accession	P02753
Other Accession	5947, 5948, 5950, 529571, P09455, P50120
Reactivity	Human, Mouse, Rat, Rabbit, Monkey, Goat
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Clone Names	SPM442
Calculated MW	23010

Additional Information

Gene ID	5950
Other Names	Retinol-binding protein 4, Plasma retinol-binding protein, PRBP, RBP, Plasma retinol-binding protein(1-182), Plasma retinol-binding protein(1-181), Plasma retinol-binding protein(1-179), Plasma retinol-binding protein(1-176), RBP4
Application Note	IF~~1:50~200 IHC-P~~N/A
Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Storage	Store at 2 to 8°C.Antibody is stable for 24 months.
Precautions	Retinol Binding Protein-1 (RBP1) Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	RBP4
Function	Retinol-binding protein that mediates retinol transport in blood plasma (PubMed:5541771). Delivers retinol from the liver stores to the peripheral tissues (Probable). Transfers the bound all-trans retinol to STRA6, that then facilitates retinol transport across the cell membrane (PubMed:22665496).
Cellular Location	Secreted

Tissue Location	Detected in blood plasma and in urine (at protein level).

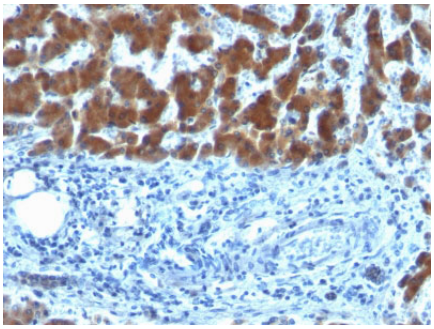
Background

Recognizes a protein of 21kDa-25kDa, identified as retinol binding protein (RBP). Its epitope localizes between aa 74-182 of human RBP. This MAb recognizes reduced and carboxy-methylated RBP (RCM-RBP) as well as the circulatory RBP but not the native RBP, thereby suggesting that its epitope becomes accessible either on unfolding or upon binding of RBP to transthyretin (prealbumin). RBP is responsible for distributing retinol from the retinoid stores in the liver to the various target tissues. Once secreted into the blood with bound retinol, the vitamin carrier circulates complexed with transthyretin prior to vitamin delivery at the plasma membrane through a receptor-mediated mechanism.

References

Reddy BM; Karande AA; Adiga PR. Antigenic determinants of human serum retinol binding protein as probed with monoclonal antibodies. Molecular Immunology, 1993, 30(15):1355-60

Images



Formalin-fixed, paraffin-embedded human Hepatocellular Carcinoma stained with RBP1 (SPM442)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.