

**Retinol Binding Protein-1 (RBP1) Antibody - With BSA and Azide**  
**Mouse Monoclonal Antibody [Clone SPM442 ]**  
**Catalog # AH10711**

## Specification

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

Application	IHC-P, IF
Primary Accession	<a href="#">P02753</a>
Other Accession	<a href="#">5947</a> , <a href="#">5948</a> , <a href="#">5950</a> , <a href="#">529571</a> , <a href="#">P09455</a> , <a href="#">P50120</a>
Reactivity	Human, Mouse, Rat, Rabbit, Monkey, Goat
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, kappa
Calculated MW	21-25kDa KDa

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

IHC-P~N/A  
IF~1:50~200

#### 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.

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

**Name** RBP4

#### Function

Retinol-binding protein that mediates retinol transport in blood plasma (PubMed: [5541771](http://www.uniprot.org/citations/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: [5541771](#)).

href="http://www.uniprot.org/citations/22665496" target="\_blank">22665496</a>).

**Cellular Location**

Secreted

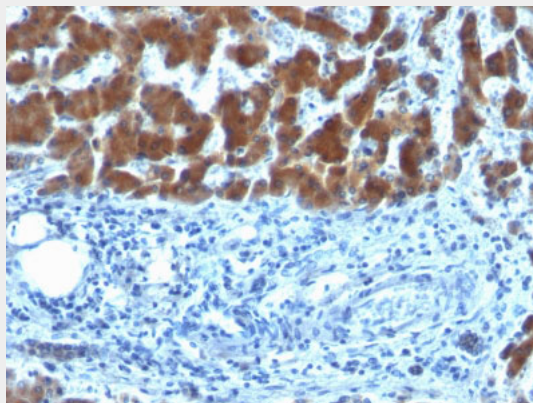
**Tissue Location**

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

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

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

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

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

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

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