

**RBP4 Antibody**  
**Purified Mouse Monoclonal Antibody**  
**Catalog # AO1547a**

**Specification**

**RBP4 Antibody - Product Information**

Application	<b>E, WB, IHC, IF, FC</b>
Primary Accession	<a href="#">P02753</a>
Reactivity	<b>Human</b>
Host	<b>Mouse</b>
Clonality	<b>Monoclonal</b>
Isotype	<b>IgG1</b>
Calculated MW	<b>23kDa KDa</b>

**Description**

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)

**Immunogen**

Purified recombinant fragment of human RBP expressed in E. Coli.

**Formulation**

Ascitic fluid containing 0.03% sodium azide.

**RBP4 Antibody - 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

**Dilution**

E~~1/10000  
WB~~1/500 - 1/2000  
IHC~~1/500 - 1/2000  
IF~~1/200 - 1/1000  
FC~~1/200 - 1/400

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

RBP4 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## RBP4 Antibody - Protein Information

**Name** RBP4

### Function

Retinol-binding protein that mediates retinol transport in blood plasma (PubMed:<a href="http://www.uniprot.org/citations/5541771" target="\_blank">5541771</a>). 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:<a href="http://www.uniprot.org/citations/22665496" target="\_blank">22665496</a>).

### Cellular Location

Secreted

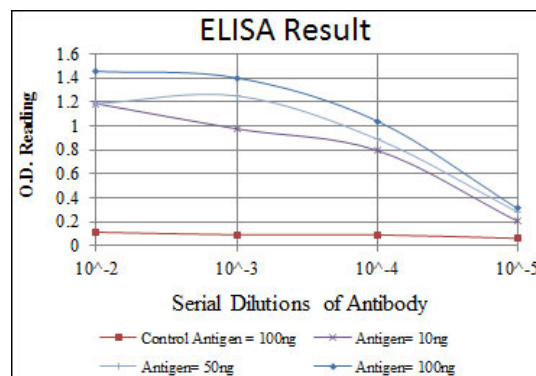
### Tissue Location

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

## RBP4 Antibody - 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](#)



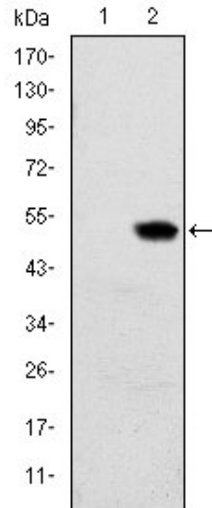


Figure 1: Western blot analysis using RBP4 mAb against HEK293 (1) and RBP4(AA: 1-201)-hIgGFc transfected HEK293 (2) cell lysate.

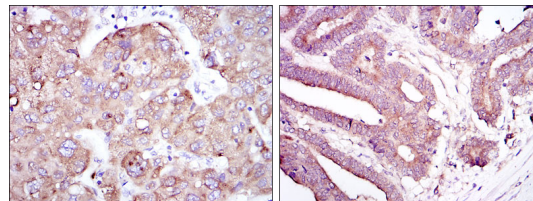


Figure 2: Immunohistochemical analysis of paraffin-embedded liver cancer tissues (left) and stomach cancer tissues (right) using RBP4 mouse mAb with DAB staining.

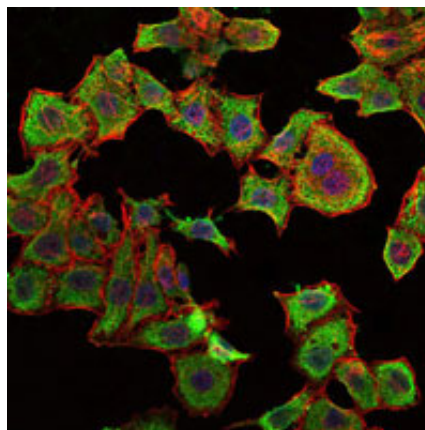


Figure 3: Immunofluorescence analysis of HepG2 cells using RBP4 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

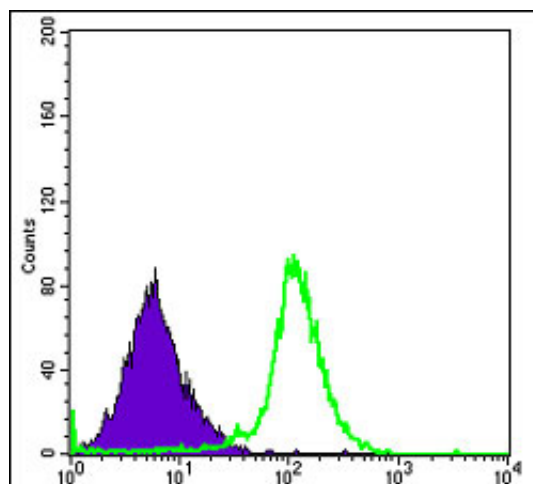


Figure 4: Flow cytometric analysis of HepG2 cells using RBP4 mouse mAb (green) and negative control (purple).

#### RBP4 Antibody - References

1. Diabetologia. 2008 Aug;51(8):1423-8.
2. J Clin Endocrinol Metab. 2008 Aug;93(8):3142-8.