

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

Mouse Monoclonal Antibody [Clone RBP/872]
Catalog # AH12231

Specification

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

Application IHC, IF 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

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 \sim 1:100 \sim 500/span>
class ="dilution_IF">IF \sim 1:50 \sim 200/span>

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). 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

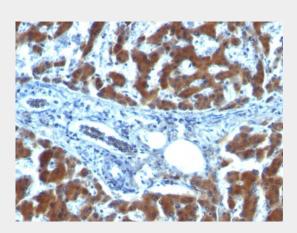
Detected in blood plasma and in urine (at protein level).

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

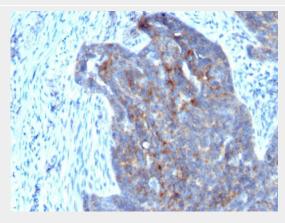
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- <u>Immunofluorescence</u>
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

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



Formalin-fixed, paraffin-embedded human Hepatocellular Carcinoma stained with RBP1 (RBP/872)



Formalin-fixed, paraffin-embedded human Ovarian Carcinoma stained with RBP1 (RBP/872)

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

Recognizes a protein of 21kDa-25kDa, identified as retinol binding protein-1 (RBP1). 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





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deficiency of vitamin A blocks secretion of the binding protein post-transnationally and results in defective delivery and supply to the epidermal cells.

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

Naylor, H.M., et al. 1999. The structure of human retinol-binding protein (RBP) with its carrier protein transthyretin reveals an interaction with the carboxy-terminus of RBP. Biochemistry 38: 2647-2653