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

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

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
Clone Names	RBP/872
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	IHC~~1:100~500 IF~~1:50~200
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).

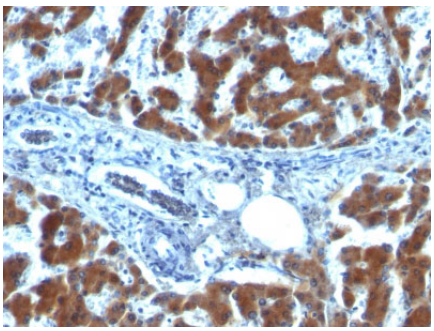
Background

Recognizes a protein of 21kDa-25kDa, identified as retinol binding protein-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 deficiency of vitamin A blocks secretion of the binding protein post-transnationally and results in defective delivery and supply to the epidermal cells.

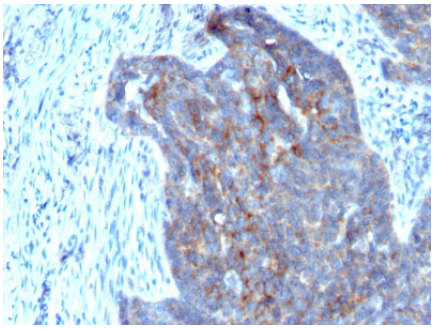
References

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

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)

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