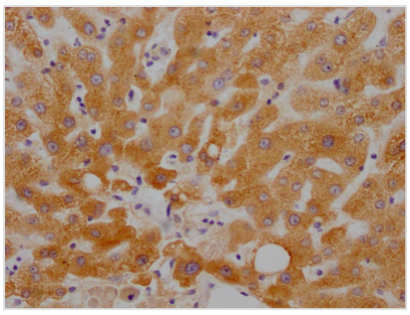
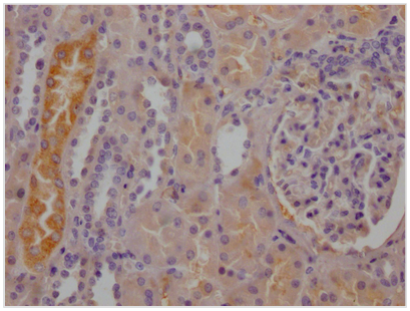
RBP4 Antibody

Product Code	CSB-RA784971A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	P02753
Immunogen	A synthesized peptide derived from human RBP4
Species Reactivity	Human
Tested Applications	ELISA, IHC; Recommended dilution: IHC:1:50-1:200
Relevance	Delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP-retinol complex interacts with transthyretin, this prevents its loss by filtration through the kidney glomeruli.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Cancer; Cardiovascular; Metabolism; Signal transduction
Gene Names	RBP4
Accession NO.	9G7

Image



IHC image of CSB-RA784971A0HU diluted at 1:100 and staining in paraffin-embedded human liver tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.



IHC image of CSB-RA784971A0HU diluted at 1:100 and staining in paraffin-embedded human kidney tissue performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05% DAB.

Description

RBP4 belongs to the lipocalin family and is the primary transport protein in the circulation for the hydrophobic chemical retinol (vitamin A). It is mainly synthesized and secreted in the liver. RBP4 transports retinol from the liver to target tissues and makes up an important regulator of retinol levels in the bloodstream. RBP4 has been linked to a number of human disorders, including vision loss and ocular ailments, as well as type 2 diabetes. In mice and humans, RBP4 has been demonstrated to operate as an adipokine implicated in insulin sensitivity modulation. RBP4 also acts as a hepatokine in mice, mediating the effects of the molecular clock on glucose metabolism.

The recombinant RBP4 antibody expression is induced in mammalian cells transfected with a recombinant plasma vector. The recombinant plasma vector was constructed by inserting the gene coding for the antibody against RBP4 into the plasma. The recombinant RBP4 antibody was purified from the cell culture medium using Affinity-chromatography. It can react with samples containing RBP4 protein from Human and has been validated for use in the ELISA, IHC.