

RBP1

Native Human Retinol-binding Protein

Catalog No.	CRR112A
Lot No:	3165204
Quantity:	1 mg
Alternate Names:	Retinol-binding protein 1, Cellular retinol-binding protein, CRBP, Cellular retinol-binding protein I, CRBP-I
Description:	<p>Human Retinol Binding Protein is responsible for binding and transporting retinol (vitamin A). Human Retinol Binding Protein has a binding site for one molecule of retinol and circulates in the plasma together with prealbumin in the form of a protein complex in a molar ratio of 1:1. This binding to prealbumin prevents greater glomerular losses of the human retinol-binding protein. Only the retinol-free form of the retinol-binding protein, which has no affinity for prealbumin, undergoes glomerular filtration unhindered as a result of its low molecular weight; human Retinol Binding Protein is re-absorbed by the tubular cells and catabolized there.</p> <p>This explains the elevated serum level of human Retinol Binding Protein in advanced chronic renal insufficiency. Since human Retinol Binding Protein and human prealbumin are synthesized in the liver, their serum concentrations are reduced in acute and chronic hepatic diseases. Decreased concentrations of Human Retinol Binding Protein have also been observed in cystic fibrosis.</p>
UniProt ID:	P09455
Source:	Human urine sourced from donors with renal tubular proteinuria
Molecular Weight:	21.0 kDa
Formulation:	Lyophilized from 0.02 M ammonium bicarbonate
Purity:	≥ 96% by SDS-PAGE, single band α_2
Reconstitution:	Centrifuge vial briefly before opening. Reconstitute to 1 mg/ml with PBS
Storage & Stability:	Store as supplied for up to 1 year at 2-8°C.
Handling:	Non-Infectious Disease Certification: Non-reactive for HIV-1/HCV/HBV by NAT; Syphilis, HBcAg, HBsAg, HCV Ab, HIV-1&2 Ab and RPR by currently approved FDA methods. However, because no test method can offer complete assurance that infectious agents are absent, this material should be handled at Bio-Safety Level 2 (BSL 2) as recommended for potentially infectious human serum or blood specimen in the CCD/NIH manual "Biosafety in Microbiological and Biomedical Laboratories", 2009.

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