

Native Human Retinol Binding Protein 4

Cat. No. RBP4-247H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified Native Human Plasma Retinol Binding Protein 4
Species	Human
Source	Human Plasma
Description	Human Retinol binding protein (RBP) is responsible for binding and transporting retinol (vitamin A). Human RBP 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 RBP is re-absorbed by the tubular cells and catabolized there. 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 (RBP) have also been observed in cystic fibrosis
Form	Lyophilized from Tris buffer, pH: 7.4
Molecular Mass	21 kDa
Purity	>98% by SDS-PAGE

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Storage Store at -20 °C.

GENE INFORMATION

Gene Name	RBP4 retinol binding protein 4, plasma [Homo sapiens]
Official Symbol	RBP4
Synonyms	RBP4; retinol binding protein 4, plasma; retinol-binding protein 4; RBP; PRBP; plasma retinol-binding protein; retinol-binding protein 4, interstitial;
Gene ID	5950
mRNA Refseq	NM_006744
Protein Refseq	NP_006735
UniProt ID	P02753
Chromosome Location	10q23-q24
Pathway	Vitamin A and carotenoid metabolism, organism-specific biosystem; retinol biosynthesis, conserved biosystem; retinol biosynthesis, organism-specific biosystem;
Function	protein binding; retinal binding; retinol binding; retinol transporter activity; transporter activity;

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