

## Native Human Retinol Binding Protein 4

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Purified Native Human Plasma Retinol Binding Protein 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | Human Plasma                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Description</b>      | <p>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</p> |
| <b>Form</b>             | Lyophilized from Tris buffer, pH: 7.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | 21 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Purity</b>           | >98% by SDS-PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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**Storage** Store at -20 °C.

## GENE INFORMATION

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

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