

Recombinant Human Retinol Binding Protein 4, Plasma

Cat. No. RBP4-111H Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Human RBP-4 produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain containing 184 amino acids and having a molecular mass of 21 kDa. The Retinol Binding Protein-4 is purified by proprietary chromatographic techniques. |
| Species | Human |
| Source | E.coli |
| ProteinLength | 19-201 a.a. |
| Description | Retinol binding protein 4(RBP4) belongs to the lipocalin family and is the specific carrier for retinol (vitamin A alcohol) in the blood. This protein was found to be expressed and secreted by adipose tissue, and was strongly associated with insulin resistance. 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. RBP4 delivers retinol from the liver to the peripheral tissues. In plasma, the rbp-retinol complex interacts with transthyretin, this prevents its loss by filtration through the kidney glomeruli. |
| Physical Appearance | Sterile Filtered colorless solution. |
| Purity | Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. |

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| Formulation | 1 mg/ml in PBS pH-7.4. |
| Amino Acid Sequence | MERDCRVSSF RVKENFDKAR FSGTWYAMAK KDPEGLFLQD NIVAEFSVDE TGQMSATAKGRVLLNNWDV CADMVGTFD TEDPAKFKMK YWGVASFLQK GNDDHWIVDT DYDTYAVQYS CRLNLDGTC ADSYSFVFSR DPNGLPPEAQ KIVRQRQEEL CLARQYRLIV HNGYCDGRSE RNLL. |
| Storage | Liquid RBP4 although stable at 10°C for 1 week, should be stored below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles. |

GENE INFORMATION

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| Gene Name | RBP4 retinol binding protein 4, plasma [Homo sapiens] |
| Synonyms | Retinol Binding Protein 4; RBP-4; RBP4; Plasma retinol-binding protein; PRBP; RBP; OTTHUMP00000020114; OTTHUMP00000020116; retinol binding protein 4, plasma; retinol-binding protein 4, interstitial; PRO0222 |
| Gene ID | 5950 |
| mRNA Refseq | NM_006744 |
| Protein Refseq | NP_006735 |
| MIM | 180250 |
| UniProt ID | P02753 |
| Chromosome Location | 10q23-q24 |

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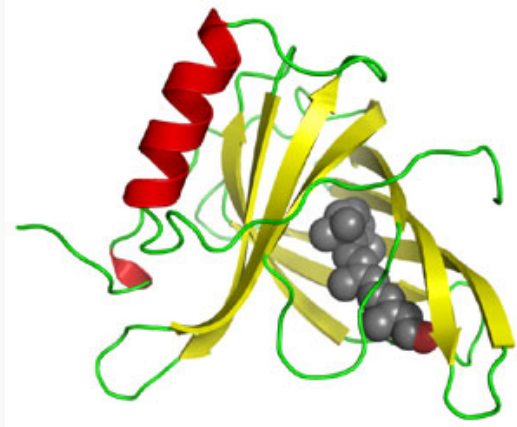
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Function

binding; retinal binding; retinol binding; retinol transporter activity; transporter activity

**Retinol binding
protein 4, plasma**



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