

# Recombinant Human RBP4 Protein, His-tagged

**Cat. No.** RBP4-219H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Biotinylated Recombinant Human Retinol-Binding Protein 4 is produced by Human 293 Cells. The target gene encoding E19-L201 is expressed with an 8His tag at the C terminus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Description</b>      | Retinol-binding protein 4 (RBP4) is a prototypic member of the lipocalin superfamily. RBP4 acts as a carrier for retinol (vitamin A), can stabilize the unstable and insoluble retinol in aqueous solution through their tight interaction. RBP4 is secreted from the liver, and in turn delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP4-retinol complex interacts with transthyretin (TTR), which is crucial for preventing RBP4 excretion through the kidney glomeruli. Recently studies found that RBP4 is expressed in adipose tissue and correlated with obesity, insulin resistance (IR) and type 2 diabetes (T2DM). |
| <b>Form</b>             | Lyophilized from a 0.2 um filtered solution of PBS, pH7.2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b>   | Predicted Molecular Weight: 24.1kDa<br>Apparent Molecular Weight: Biotinylated RBP4 protein appeared at 24kDa and 26kDa in a reducing SDS-PAGE gel.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>AA Sequence</b>      | E19-L201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

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|                          |                                                                                                                                                                                                                                                                                                                                                                            |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin</b>         | Less than 0.1 EU/ug.                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>            | >95%                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage</b>           | <p>Lyophilized protein should be stored at &lt; -20 centigrade, though stable at room temperature for 3 weeks.</p> <p>Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days. Aliquots of reconstituted samples are stable at &lt; -20 centigrade for 3 months.</p> <p>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</p> |
| <b>Reconstitution</b>    | <p>It is not recommended to reconstitute to a concentration less than 100µg/ml.</p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>                                                                                                                                           |
| <b>Quality Statement</b> | Purity: greater than 95% as determined by reducing SDS-PAGE.                                                                                                                                                                                                                                                                                                               |
| <b>Shipping</b>          | <p>The product is shipped on dry ice pack.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>                                                                                                                                                                                                                                                  |

## GENE INFORMATION

|                        |                                                                                                                                          |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | RBP4 retinol binding protein 4 [ Homo sapiens (human) ]                                                                                  |
| <b>Official Symbol</b> | RBP4                                                                                                                                     |
| <b>Synonyms</b>        | Plasma retinol-binding protein; retinol binding protein 4, plasma; RetinolBinding Protein 4; retinol-binding protein 4; RDCCAS; MCOPCB10 |
| <b>Gene ID</b>         | 5950                                                                                                                                     |
| <b>mRNA Refseq</b>     | NM_001323517.                                                                                                                            |

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|----------------|----------------|
| Protein Refseq | NP_001310446.1 |
| MIM            | 180250         |
| UniProt ID     | P02753         |

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