

# Recombinant Human RBP4 Protein, C-8His tagged, Biotinylated

**Cat. No.** RBP4-46H    **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 a 8His tag at the C terminus.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Source</b>           | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>ProteinLength</b>    | E19-L201                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <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>Endotoxin</b>        | Less than 0.1 EU/μg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage Buffer</b>   | Lyophilized from a 0.2 μm filtered solution of PBS, pH7.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Shipping</b>         | Ambient                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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Conjugation Biotin

## GENE INFORMATION

|                 |                                                                                                                              |
|-----------------|------------------------------------------------------------------------------------------------------------------------------|
| Gene Name       | RBP4 retinol binding protein 4, plasma [ Homo sapiens (human) ]                                                              |
| Official Symbol | RBP4                                                                                                                         |
| Synonyms        | Plasma retinol-binding protein; RBP4; retinol binding protein 4; plasma; RetinolBinding Protein 4; retinol-binding protein 4 |
| Gene ID         | 5950                                                                                                                         |
| mRNA Refseq     | NM_006744                                                                                                                    |
| Protein Refseq  | NP_006735                                                                                                                    |
| MIM             | 180250                                                                                                                       |
| UniProt ID      | P02753                                                                                                                       |

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