

### 32-9115: Recombinant Human Retinol-Binding Protein 4/RBP4 (C-His)

**Alternative  
Name :**

Plasma retinol-binding protein; RBP4; retinol binding protein 4, plasma; RetinolBinding Protein 4; retinol-binding protein 4;Plasma retinol-binding protein Plasma retinol-binding protein(1-182) Plasma retinol-binding protein(1-181) Plasma retinol-binding protein(1-179) Plasma retinol-binding protein(1-176)

**Description**

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Source: Human 293 Cells;

Specificity : Detected in blood plasma and in urine (at protein level).

Retinol-binding protein 4 (RBP4) is the specific carrier for retinol (also known as vitamin A), and is responsible for the conversion of unstable and insoluble retinol in aqueous solution into stable and soluble complex in plasma through their tight interaction. As a member of the lipocalin superfamily, RBP4 containing a  $\beta$ -barrel structure with a well-defined cavity 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), and this binding is crucial for preventing RBP4 excretion through the kidney glomeruli. RBP4 expressed from a nectopic source efficiently delivers retinol to the eyes, and its deficiency affects night vision largely. Recently, RBP4 as an adipokine, is found to be expressed in adipose tissue and correlated with obesity, insulin resistance (IR) and type 2 diabetes (T2DM).

## Product Info

<b>Amount :</b>	25 $\mu$ g
<b>Purification :</b>	$\geq$ 85 % as determined by SDS-PAGE. $\geq$ 90 % as determined by SEC-HPLC.
<b>Content :</b>	Formulation: Lyophilized from sterile PBS, pH 7.2 Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Storage condition :</b>	
<b>Amino Acid :</b>	Predicted N Terminal: Glu 19

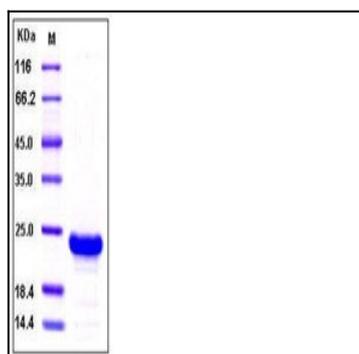


Figure 1 : Recombinant Human RBP4 Protein (His Tag), verified image

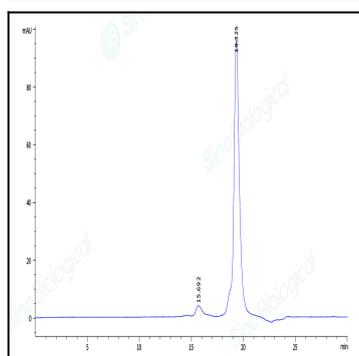


Figure 2 : Recombinant Human RBP4 Protein (His Tag), HPLC-verified image