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## Datasheet for ABIN1097460 RBP4 Protein (AA 19-201)

### Overview

Quantity:	50 µg
Target:	RBP4
Protein Characteristics:	AA 19-201
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

### Product Details

Purpose:	Recombinant Human Retinol-Binding Protein 4/RBP4
Sequence:	MERDCRVSSF RVKENFDKAR FSGTWYAMAK KDPEGLFLQD NIVAEFSVDE TGQMSATAKG RVRLNNWDV CADMVGTFTD TEDPAKFKMK YWGVASFLQK GNDDHWIVDT DYDTYAVQYS CRLNLDGTC ADSYSFVFSR DPNGLPPEAQ KIVRQRQEEL CLARQYRLIV HNGYCDGRSE RNLL
Characteristics:	Recombinant Human Retinol-Binding Protein 4/RBP4 is produced with our E. coli expression system. The target protein is expressed with sequence (Glu19-Leu201) of Human RBP4.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

### Target Details

Target:	RBP4
Alternative Name:	rbp4 ( <a href="#">RBP4 Products</a> )

## Target Details

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**Background:** Retinol Binding Protein 4 (RBP4) is a member of the Lipocalin family and in the blood. RBP4 is the specific vector for retinol. RBP4 is expressed and secreted by adipose tissue, and is associated with insulin resistance. RBP4 delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP-retinol complex interacts with transthyretin to prevent its loss by filtration through the kidney glomeruli. Defects in RBP4 cause retinol-binding protein deficiency and can cause night vision problems.

Alternative Names: Retinol-Binding Protein 4, Plasma Retinol-Binding Protein, PRBP, RBP, RBP4

**Molecular Weight:** 21.2 kDa

**UniProt:** [P02753](#)

**Pathways:** [Regulatory RNA Pathways](#), [Positive Regulation of Peptide Hormone Secretion](#), [Carbohydrate Homeostasis](#), [Production of Molecular Mediator of Immune Response](#)

## Application Details

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**Restrictions:** For Research Use only

## Handling

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**Format:** Lyophilized

**Reconstitution:** It is not recommended to reconstitute to a concentration less than 100 µg/mL. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Buffer:** Lyophilized from a 0.2 µm filtered solution of 50 mM TrisHCl, 10 mM CaCl<sub>2</sub>, 150 mM NaCl, pH 7.5.

**Handling Advice:** Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

**Storage:** 4 °C/-20 °C/-80 °C

**Storage Comment:** Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Expiry Date:** 3 months