

# Recombinant human Retinol Binding Protein 4/RBP4 protein

Catalog Number: RBP0701

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

19-201aa

### UniProt No.

P02753

### NCBI Accession No.

NP\_006735.2

### Alternative Names

Plasma retinol-binding protein, PRBP, RBP

## PRODUCT SPECIFICATION

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### Molecular Weight

21 kDa (184aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

### Tag

Non-Tagged

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### 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

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glomeruli. Recombinant human RBP4 was expressed in *E. coli* and purified by using conventional chromatography techniques.

## Amino acid Sequence

MERDCRVSSF RVKENFDKAR FSGTWYAMAK KDPEGLFLQD NIVAEFSVDE TGQMSATAKG RVRLNNDV  
CADMVGTFD TEDPAKFKMK YWGVASFLQK GNDDHWIVDT DYDTYAVQYS CRLNLDGTC ADSYSFVFSR DPNGLPPEAQ  
KIVRQRQEEL CLARQYRLIV HNGYCDGRSE RNLL

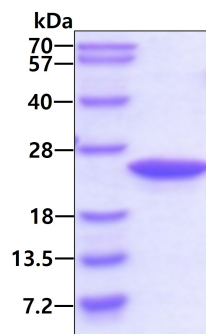
## General References

Yao-Borengasser A., et al. (2007) *J Clin Endocrinol Metab.* 92(7):2590-7.

McTernan PG., et al. (2007) *J Clin Endocrinol Metab.* 92(7):2430-2.

## DATA

### SDS-PAGE



3 $\mu$ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.