

Recombinant human Retinol Binding Protein 4/RBP4 protein

Catalog Number: RBP0701

PRODUCT INFORMATION

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

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

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 RVRLNNWDV
CADMVGTFTD TEDPAKFKMK YWGVASFLQK GNDDHWIVDT DYDTYAVQYS CRLNLDGTC ADSYSFVFSR DPNGLPPEAQ
KIVRQRQEEL CLARQYRLIV HNGYCDGRSE RNLL

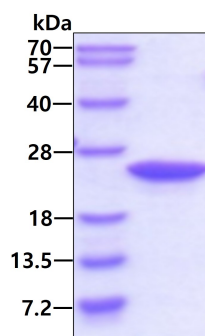
General References

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



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.