Recombinant mouse Retinol Binding Protein 4/RBP4 protein
Catalog Number: ATGP3274

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
19-201aa

UniProt No.
Q00724

NCBI Accession No.
NP_035385

Alternative Names
Plasma retinol-binding protein, PRBP, RBP

PRODUCT SPECIFICATION

Molecular Weight
22.4 kDa (191aa)

Concentration
0.5mg/ml (determined by absorbance at 280nm)

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
His-Tag

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
RBP4, also known as retinol-binding protein 4, is the specific carrier for retinol, 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. This protein delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP-retinol complex interacts with transthyretin and prevents its loss by filtration through the

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kidney glomeruli. Recombinant mouse RBP4, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence
ERDCRVSSFR VKENFDKARF SGLWYAIAKK DPEGLFLQDN IIAEFSVDEK GHMSATAKGR VRLLSNWEVC ADMVGTFTDT EDPAKFKMKY WGVASFLQRG NDDHWIIDTD YDTFALQYSC RLQNLDGTCA DSYSFVFSRD PNGLSPETRR LVRQRQEELC LERQYRWIEH NGYCQSRPSR NSLLEHHHHH H
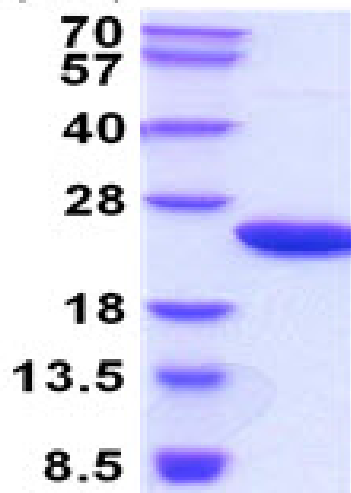
General References
Muenzner M., et al. (2013) Mol. Cell. Biol. 33(20):4068-4082.
Berry DC., et al. (2013) J. Biol. Chem. 288(34):24528-24539.

DATA

SDS-PAGE

15% SDS-PAGE (3ug)

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

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