Recombinant Human Retinol-binding protein 4 /PRBP Protein

Catalog No.: RP00274

Sequence Information

Species
Human

Gene ID
5950

Swiss Prot
P02753

Tags
C-His

Synonyms
MCOPCB10, RDCCAS,RBP4, RDCCAS

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
21.91 kDa

Observed MW
15-25 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

This protein belongs to the lipocalin family and is the specific carrier for retinol (vitamin A alcohol) in the blood. 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 glomeruli. A deficiency of vitamin A blocks secretion of the binding protein posttranslationally and results in defective delivery and supply to the epidermal cells.

Basic Information

Description
Recombinant Human Retinol-binding protein 4/PRBP Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Glu19-Leu201) of human RBP4 (Accession #NP_006735.2) fused with a 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized Human RBP4 Protein at 2 μg/mL (100 μL/well) can bind RBP4 Rabbit mAb with a linear range of 0.12-2.4 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

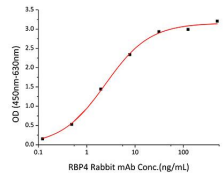
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

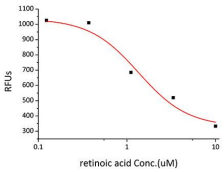
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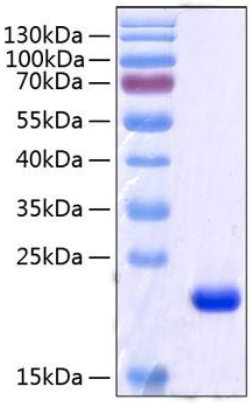
Validation Data



Immobilized Human RBP4 Protein at 2 μg/mL (100 μL/well) can bind RBP4 Rabbit mAb with a linear range of 0.12-2.4 ng/mL.



Recombinant human RBP4 binds all-trans retinoic acid. The binding of retinoic acid results in the quenching of Trp fluorescence in RBP4.The 50% binding concentration (BC50) is > 1.35 μM.



Recombinant Human Retinol-binding protein 4/PRBP Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.