

Recombinant Human Retinol-binding protein 3/RBP3 Protein

Catalog No.: RP03269 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	5949	P10745

Tags

N-His

Synonyms

Retinol-binding protein 3;
Interphotoreceptor retinoid-binding protein; Interstitial retinol-binding protein; RBP3; IRBP

Product Information

Source	Purification
E.coli	> 95% by SDS-PAGE.

Endotoxin

< 1.0 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Retinol-binding proteins (RBP) are carrier proteins that bind retinol. Retinol and retinoic acid play crucial roles in the modulation of gene expression and overall development of an embryo. However, deficit or excess of either one of these substances can cause early embryo mortality or developmental malformations. Regulation of transport and metabolism of retinol necessary for a successful pregnancy is accomplished via RBP. Retinol binding proteins have been identified within the uterus, embryo, and extraembryonic tissue of the bovine, ovine, and porcine, clearly indicating that RBP plays a role in proper retinol exposure to the embryo and successful transport at the maternal-fetal interface.

Basic Information

Description

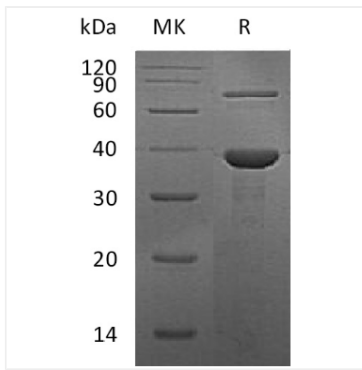
Recombinant Human Retinol-binding protein 3/RBP3 Protein is produced by E.coli expression system. The target protein is expressed with sequence (Thr321-Leu630) of human RBP3 (Accession #P10745) fused with His tag at the N-terminus.

Bio-Activity

Storage

Store the lyophilized protein at -20°C to -80°C for 12 months. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Retinol-binding protein 3/RBP3 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at approximately 75-80 kDa.