

Recombinant Human RBP4 protein, His-tagged

Cat. No. RBP4-442H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RBP4 (P02753) aa. (Ala18~Leu201) fused with His tag was produced in HEK293F cells.
Species	Human
Source	HEK293
ProteinLength	Ala18~Leu201
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 22.7kDa; Accurate Molecular Mass: 27kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	> 95%

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Characteristic	Isoelectric point is 5.3.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; EMSA; Reporter Assays; Purification; Amine Reactive Labeling
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200ug/mL
Storage buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex

GENE INFORMATION

Gene Name	RBP4 retinol binding protein 4 [Homo sapiens (human)]
Official Symbol	RBP4
Synonyms	RBP4; retinol binding protein 4; RDCCAS; MCOPCB10; PRBP; RBP; plasma retinol-binding protein; retinol binding protein 4, plasma; retinol-binding protein 4, interstitial
Gene ID	5950

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mRNA Refseq	NM_001323517.1
Protein Refseq	NP_001310446.1
UniProt ID	P02753

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