

Datasheet for ABIN7317899

RBP4 Protein (His tag)



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Overview

Quantity:	100 µg
Target:	RBP4
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This RBP4 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human RBP4 Protein (His Tag)(Active)
Sequence:	Met 1-Leu 201
Characteristics:	A DNA sequence encoding the pro form of human RBP4 (NP_006735.2) (Met 1-Leu 201) was expressed with a C-terminal polyhistidine tag.
Purity:	> 85 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to bind all-trans retinoic acid. The binding of retinoic acid results in the quenching of Trp fluorescence in RBP4. The 50% binding concentration (BC50) is > 1.0 µM

Target Details

Target:	RBP4
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Target Details

Alternative Name: RBP4 ([RBP4 Products](#))

Background: Background: Retinol-binding protein 4 (RBP4) is the specific carrier for retinol (also known as vitamin A); 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. As a member of the lipocalin superfamily; RBP4 containing a β -barrel structure with a well-defined cavity is secreted from the liver; and in turn delivers retinol from the liver stores to the peripheral tissues. In plasma; the RBP4-retinol complex interacts with transthyretin (TTR); and this binding is crucial for preventing RBP4 excretion through the kidney glomeruli. RBP4 expressed from an ectopic source efficiently delivers retinol to the eyes; and its deficiency affects night vision largely. Recently; RBP4 as an adipokine; is found to be expressed in adipose tissue and correlated with obesity; insulin resistance (IR) and type 2 diabetes (T2DM).
Synonym: RDCCAS;Retinol-Binding Protein 4; Plasma Retinol-Binding Protein; PRBP; RBP; RBP4

NCBI Accession: [NP_006735](#)

Pathways: [Regulatory RNA Pathways](#), [Positive Regulation of Peptide Hormone Secretion](#), [Carbohydrate Homeostasis](#), [Production of Molecular Mediator of Immune Response](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.2

Storage: 4 °C, -20 °C, -80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.