

Datasheet for ABIN7321242

RBP4 Protein (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	50 µg
Target:	RBP4
Origin:	Rat
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 Rat RBP4 Protein (His Tag)(Active)
Sequence:	Met 1-Leu 201
Characteristics:	A DNA sequence encoding the extracellular domain of rat RBP4 (NP_037294.1) (Met 1-Leu 201) was expressed, fused with a polyhistidine tag at the C-terminus.
Purity:	> 97 % as determined by 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 alltrans retinoic acid. The binding of retinoic acid results in the quenching of Trp fluorescence in RBP4. The 50% binding concentration (BC50) is >0.5 µM.

Target Details

Target:	RBP4
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Target Details

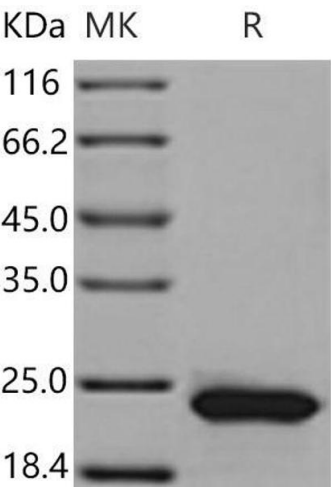
Alternative Name:	RBP4 (RBP4 Products)
Background:	<p>Background: Retinol-binding protein 4 (RBP4) is the specific carrier for retinol (also known as vitamin A), and is responsible for the conversion of unstable and insoluble retinol in aqueous solution into stable and soluble complex in plasma through 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).</p> <p>Synonym: RBPA;Rbp4</p>
Molecular Weight:	22.8 kDa
NCBI Accession:	NP_037294
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
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Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>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.</p>



Western Blotting

Image 1.