

## Recombinant Human RBP4

<b>CATALOG #:</b>	4940-20	20 µg
	4940-1000	1 mg
<b>LOT #:</b>	_____	
<b>SYNONYMS:</b>	Retinol Binding Protein 4, RBP-4, RBP4, Plasma retinol-binding protein, PRBP, RBP.	
<b>SOURCE:</b>	<i>E. coli</i>	
<b>PURITY:</b>	> 95 % by SDS-PAGE and RP-HPLC	
<b>FORM:</b>	Sterile filtered solution (1 mg/ml) in PBS, pH 7.4	

**STORAGE CONDITIONS:**

Recombinant human RBP4 is best-stored at -20°C. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA). Avoid freeze/thaw cycles.

**DESCRIPTION:**

Retinol binding protein 4(RBP4) belongs to the lipocalin family and is the specific carrier for retinol (vitamin A alcohol) in the blood. This protein was found to be expressed and secreted by adipose tissue, and was strongly associated with insulin resistance. 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. RBP4 delivers retinol from the liver to the peripheral tissues. In plasma, the rbp-retinol complex interacts with transthyretin, this prevents its loss by filtration through the kidney glomeruli. RBP-4 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 184 amino acids and having a molecular mass of 21 kDa. The Retinol Binding Protein-4 is purified by proprietary chromatographic techniques.

**AMINO ACID SEQUENCE:**

MERDCRVSSF RVKENFDKAR FSGTWYAMAK KDPEGLFLQD NIVAEFSVDE  
TGQMSATAKGRVRLNNDWDV CADMVGTFD TEDPAKFKMK YWGVASFLQK  
GNDDHWIVDT DYDTYAVQYS CRLNLDGTC ADSYSFVFSR DPNGLPPEAQ KIVRQRQEEL  
CLARQYRLIV HNGYCDGRSE RNLL

**BIOLOGICAL ACTIVITY:**

Immune reactive in ELISA using monoclonal anti CD4 in gpl2O capture ELISA assays.

**RELATED PRODUCTS:**

## Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

## Cell Damage &amp; Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

## Signaling Pathways in Diabetes and Obesity

## Lipid Metabolism

## Cytokines, Growth Factors and Hormones

## Anti-diabetic compounds and Obesity Peptides

## Other Products for Diabetes/Obesity Research

## PAH (p-Aminohippuric Acid) Assay Kit

## Growth Factors and Cytokines

## Monoclonal and Polyclonal Antibodies

**FOR RESEARCH USE ONLY! Not to be used in humans.**