



# Recombinant Protein Technical Manual

## Recombinant Human RBP4 Protein

RPES4073

### Product Data:

**Product SKU:** RPES4073

**Size:** 10µg

**Species:** Human

**Expression host:** E. coli

**Uniprot:** NP\_006735.2

### Protein Information:

**Molecular Mass:** 21.2 kDa

**AP Molecular Mass:** 20 kDa

**Tag:**

**Bio-activity:**

**Purity:** > 90 % as determined by reducing SDS-PAGE.

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** 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.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from a 0.2 µm filtered solution of 50mM TrisHCl, 10mM CaCl<sub>2</sub>, 150mM NaCl, pH 7.5 .

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

**Application:**

**Synonyms:** RDCCAS;Retinol-Binding Protein 4; Plasma Retinol-Binding Protein; PRBP; RBP; RBP4

## Immunogen Information:

**Sequence:** Glu19-Leu201

## Background:

Retinol Binding Protein 4 (RBP4) is a member of the Lipocalin family and is found in the blood. RBP4 is the specific vector for retinol. RBP4 is expressed and secreted by adipose tissue, and is associated with insulin resistance. RBP4 delivers retinol from the liver stores to the peripheral tissues. In plasma, the RBP-retinol complex interacts with transthyretin to prevent its loss by filtration through the kidney glomeruli. Defects in RBP4 cause retinol-binding protein deficiency and can cause night vision problems.