



## Polyclonal Antibody against Human Retinol protein 4(RBP4)

Catalog Number: 11060

Size: 100 ug

Host: Rabbit

### Introduction to the Molecule

Retinol binding protein 4(RBP4), originally known as a specific transport of retinol in blood, is also a novel inflammatory and insulin resistance marker. Serum RBP4 levels are elevated in insulin resistant mice and humans with obesity and type 2 diabetes. Animal experiments found that increased secretion of RBP4 might reduce insulin-dependent glucose uptake by muscle tissue by reducing the activity of PI(3)K (phosphoinositide 3-kinase), and increased hepatic glucose output by increasing the expression of the enzyme PEPCK2. Studies suggested that elevated serum RBP4 was associated with components of the metabolic syndrome, including increased body-mass index, waist-to-hip ratio, serum triglyceride levels, and systolic blood pressure and decreased high-density lipoprotein cholesterol levels. Furthermore, circulating RBP4 concentrations were associated with subclinical cardiovascular disease, which imply that RBP4 could be involved in the development of atherosclerosis.

### Isotype/Preparation:

Rabbit specific IgG was purified by human RBP4 affinity chromatography

### Immunogen:

Recombinant full-length human RBP4 expressed in E.coli.

### Specificity:

The antibody detects human RBP4.

### Formulation:

Solution in PBS. Store at  $-20^{\circ}\text{C}$ . For long-term storage, aliquot and freeze at  $-70^{\circ}\text{C}$ . Avoid repeated freeze/defrost cycles.

### Application/Usage:

**Western blot** - This antibody can be used as primary antibody in western blot assay to detect human RBP4

**ELISA** - This antibody can be used in ELISA with the appropriate secondary reagents to detect human RBP4

### Quality Control Test

BCA to determine quantity of the antibody





**Contact Us**

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