



Polyclonal Antibody against Mouse Retinol Protein 4

Catalog Number: 12060

Size: 100 µg

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 phosphoinositide 3-kinase (PI(3)K), 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.

Purification

Antigen affinity-purified

Immunogen

Recombinant full-length mouse RBP4 expressed in *E.coli*.

Specificity

The antibody detects mouse RBP4 in western blot and ELISA.

Formulation & Storage

Liquid in phosphate-buffered saline (PBS). Store at -20°C for less than one week. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

Application/Usage

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

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

Quality Control Test

BCA to determine quantity of the antibody.