

Polyclonal Antibody to Rat Acrp30

Alternate names: ACDC, ACRP30, ADIPOQ, APM-1, Adipocyte, Adipocyte Complement-Related 30 kDa Protein, Adipose Most Abundant Gene Transcript 1 Protein, C1q and Collagen Domain-Containing Protein, GBP28, Gelatin-Binding Protein

Catalog No.: SP5135P

Quantity: 0.1 mg

Concentration: 1.0 mg/ml

Host: Rabbit

Immunogen: Synthetic Peptides: E(17) G I T A T E G P G A L(28).

Applications: Western Blot: 1µg/ml. Other applications not tested. Optimal dilutions of this antibody are dependent on conditions and should be determined by the user.
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Specificity: Adipose cells produce and secrete numerous physiologically important proteins, such as lipoprotein lipase (LPL), leptin, and adipocyte complement related protein of 30 kDa (Acrp30). Acrp30 is a circulating protein that is secreted exclusively by differentiated adipocytes. During adipocyte differentiation, mRNA levels of Acrp30 have been shown to be induced over 100-fold. Studies indicate that Acrp30 enhances the ability of sub-physiological levels of insulin to suppress glucose production, thus linking adipose tissue to whole body glucose regulation. Acrp30 function appears to be regulated by phosphatidylinositol-3-kinase (PI3-K) since Acrp30 secretion is blocked by pharmacologic inhibitors of this kinase. mRNA levels of Acrp30 have been shown to be significantly reduced in adipose tissue of obese patients with Type 2 diabetes relative to control subjects. Structural similarities to TNFalpha suggests that Acrp30 may play a role in pathogenesis of insulin resistance in Type 2 diabetes. Because Acrp30 is down-regulated in various forms of obesity and its structural similarity to TNFalpha, it is currently being investigated as an important regulator of whole body energy homeostasis. This antibody detects adipocyte complement related protein of 30 kDa (Acrp30) from rat plasma.

SP5135P has been successfully used in Western blot procedures. By Western blot, this antibody detects an ~30 kDa protein representing Acrp30 from diluted rat plasma.

The SP5135P immunizing peptide corresponds to amino acid residues 17-28 from rat ACRP30 with a C-terminal peptide amidation. This amidated peptide (SP5135CP) is available for use in neutralization and control experiments.

Figure 1 shows a Western blot of ACRP30 in diluted rat plasma using SP5135P.

Store the antibody at -20°C. Avoid repeated freezing and thawing. Shelf life: on

Storage:

Pictures:

Fig. 1

