

Adiponectin polyclonal antibody

Catalog: BS67424

Host: Rabbit

Reactivity: Human, Mouse, Rat

BackGround:

Adiponectin, also termed AdipoQ, Acrp30, apM1 and GBP28, is an adipokine expressed exclusively in brown and white adipocytes. It is secreted into the blood and exists in three major forms: a low molecular weight trimer, a medium molecular weight hexamer and a high molecular weight multimer. Adiponectin levels are decreased in obese and insulin-resistant mice and humans, suggesting that this adipokine is critical to maintain insulin sensitivity. Adiponectin stimulates the phosphorylation of AMPK α at Thr172 and activates AMPK in skeletal muscle. It also stimulates glucose uptake in myocytes. The block of AMPK activation by a dominant-negative AMPK α 2 isoform inhibits the effect of adiponectin on glucose uptake, indicating that adiponectin stimulates glucose uptake and increases insulin sensitivity through its action on AMPK. Adiponectin mutants that are not able to form oligomers larger than trimers have no effect on the AMPK pathway. Mutations that render adiponectin unable to form high molecular weight multimers are associated with human diabetes, indicating the importance of multimerization for adiponectin activity.

Product:

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 35 kDa

Swiss-Prot:

Q15848

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

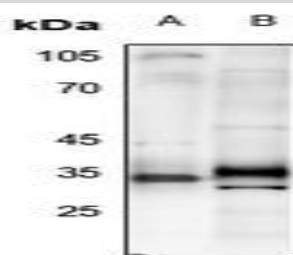
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of Adiponectin protein.

DATA:



Western blot analysis of Adiponectin expression in mouse heart (A), rat heart (B) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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