

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### Acrp30 (R55) Peptide

Cat No.: BS2833P

#### 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 $\alpha$  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 $\alpha$ 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.

#### Swiss-Prot

Q15848

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS2833 Acrp30 (R55) pAb.

#### Purification & Purity

Synthetic peptide Acrp30 (R55). (Note: the amino acid sequence is proprietary). The purity is > 98%.

#### Product

1 mg/ml in DI water.

#### Storage & Stability

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

#### Research Use

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

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