



Monoclonal Antibody against Human Adiponectin (Ha6)

Catalog Number: 21010

Size: 100 µg

Host: Mouse

Introduction to the Molecule

Adiponectin, also termed gelatin-binding protein-28 (GBP28), AdipoQ, ACP30 (Acrp30), or apM, is a major adipocyte-secreted adipokine which is abundantly present in the circulation as three distinct oligomeric complexes: LMW(67kDa), MMW(167kDa) and HMW(300kDa) adiponectin. Its levels are decreased in insulin resistance, diabetes and cardiovascular disease. Conversely, elevation of circulating adiponectin concentrations can alleviate various vascular dysfunctions in animal models, suggesting this adipokine exerts vasculo-protective effects. In addition, adiponectin may also be of importance in the development and progression of several malignancies.

Purification

Protein G affinity purification

Immunogen

HEK-293 derived recombinant human adiponectin (Cat. No. 41013).

Species reactivity

This antibody can detect human adiponectin in 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

This antibody can be used as a capture antibody in a human adiponectin ELISA in combination with monoclonal anti-human adiponectin antibody (Cat. No.: 21011) as detection antibody.

References

- [1] Xu A, et al. (2005) Testosterone selectively reduces the high molecular weight form of adiponectin by inhibiting its secretion from adipocytes. *J. Biol. Chem.* 280, 18073–18080
- [2] Xu A, et al. (2008) Selective Elevation of Adiponectin Production by the Natural Compounds Derived from a Medicinal Herb Alleviates Insulin Resistance and Glucose Intolerance in Obese Mice. *Endocrinology*. [Epub ahead of print]
- [3] Xu A, et al. (2004) Adiponectin ameliorates dyslipidemia induced by the human immunodeficiency virus protease inhibitor ritonavir in mice. *Endocrinology*. 145(2):487-94
- [4] Wang Y, et al. (2008) Post-translational modifications of adiponectin: mechanisms and functional implications. *Biochem J.* 409(3):623-33