



## **Monoclonal Antibody against Human Adiponectin (Ha7)**

**Catalog Number: 21011**

**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 detection antibody in a human adiponectin ELISA in combination with monoclonal anti-human adiponectin antibody (Cat. No.: 21010).

### **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