

## Polyclonal Antibody against Mouse Adiponectin

Catalog Number: 12010

Size: 100 µg

Host: Rabbit

### Immunogen:

Recombinant full-length mouse adiponectin expressed in mammalian cells

### Isotype/Preparation:

Rabbit specific IgG was purified by mouse adiponectin affinity chromatography

### Specificity:

The antibody detects three types of circular mouse/rat adiponectin and monomer (30kDa) adiponectin.

**Formulation:** Solution in PBS.

### Storage:

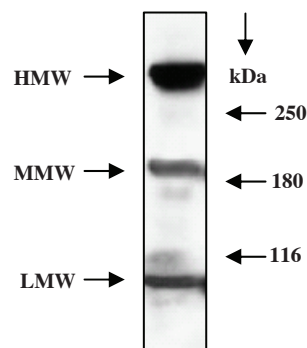
Store at -20°C. For long-term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

### Application/Usage:

**Western blot** - This antibody can be used at 0.1 – 0.2 µg/mL with the appropriate secondary reagents to detect mouse/rat adiponectin.

**ELISA** - This antibody can be used at 0.5 - 1.0 µg/mL with the appropriate secondary reagents to detect mouse/rat adiponectin.

**Immunoprecipitation** - See reference [1], [2]



**Western blot analysis of different complex formation of adiponectin in rat adipocytes using adiponectin rabbit anti-mouse antibody.**

### Introduction

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

### Reference:

- [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