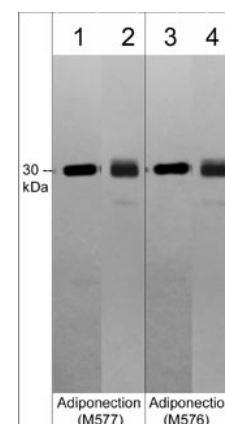


Background

Adiponectin is an adipokine that is secreted primarily from adipocytes and functions in glucose regulation and lipid metabolism. It has also been shown to play a major role in energy homeostasis. Studies report adiponectin secretion in bone, mammary glands, salivary glands, and cardiac tissue in limited quantities. It forms a homo-oligomeric structure and is homologous to complement factor C1q, collagen type VIII, and collagen type X. In humans and mice with low adiponectin levels, increased obesity and insulin resistance is observed. Adiponectin, typically an anti-inflammatory agent, has been shown to exert pro-inflammatory effects in nonmetabolic disease such as irritable bowel syndrome. Low levels of adiponectin in blood have been correlated with higher incidence and poorer prognosis in several cancers, including breast cancer.

Background References

Scherer, P.E. et al. (1995). *J Biol Chem.* 270(45):26746
 Hu, E. et al. (1996). *J Biol Chem.* 271(18):10697
 Waki, H. et al. (2003) *J Biol Chem.* 278(41):40352



Western blot analysis of mouse white adipose tissue (lanes 1 & 3) and human recombinant full length adiponectin (lanes 2 & 4). The blot was probed with mouse monoclonals anti-Adiponectin (C-terminal) antibody M577 (lanes 1 & 2) or anti-Adiponectin (C-terminal) antibody M576 (lanes 3 & 4).

Applications

WB 1:500
 ELISA 1:1000

Species Reactivity

Hu, Rt, Ms

Isotype: IgG1

Specificity

The antibody was purified using Protein G chromatography. This antibody detects a 30 kDa* protein on SDS-PAGE immunoblots of human and mouse serum, as well as detects full length human and mouse recombinant proteins.

End user should determine optimal dilution for their particular applications and experiments.
 Western blot membranes were incubated with diluted antibody in 5% non-fat milk, PBS, 0.04% Tween20 for 1 hour at room temperature.

*All molecular weights (MW) are confirmed by comparison to Bio-Rad Rainbow Markers and to western blot mobilities of known proteins with similar MW.

Immunogen

Uniprot ID: Q60994

Clone (M576) was generated from a recombinant protein that included amino acid residues within the C-terminal region of mouse Adiponectin. This sequence has high homology with similar regions in rat and human adiponectin.

Buffer and Storage

Mouse monoclonal antibody purified with protein G chromatography is supplied in 100µl phosphate-buffered saline, 50% glycerol, 1 mg/ml BSA, and 0.05% sodium azide. Store at -20°C. Stable for 1 year.

Related Products

AK6060 Actin & Tubulin Antibody Sampler Kit
 AM5771 Adiponectin (C-terminal region) Mouse Monoclonal
 MK6050 MAP Kinase Activation Antibody Sampler Kit
 MS3001 Anti-Mouse Ig:HRP Donkey Polyclonal
 MS3011 Anti-Mouse Ig:DyLight® 488 Goat Polyclonal

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