

Product information

Monoclonal anti-human Adiponectin antibody (clone 1G12)

Mouse IgG₁, κ

Cat. No. IBAAD0602

Immunogen: Recombinant human Adiponectin (15-244aa) purified from *E. coli*

NCBI Accession No.: NP_004788

Isotype: Mouse IgG₁ heavy chain and κ light chain

Clone: Anti-human adiponectin mAb, clone 1G12, is derived from hybridization of mouse SP2/O myeloma cells with spleen cells from BALB/c mice immunized with a recombinant human Acrp30 protein.

Description: Human Adiponectin, also referred to as AdipoQ, Acrp30, apm-1 or GBP28, is a secreted protein expressed exclusively in differentiated adipocyte(adipokine). Adiponectin contains a modular structure comprising an N-terminal collagenous domain followed by a C-terminal globular domain (gAcrp30). Adiponectin plays a role in various physiological processes such as energy homeostasis and obesity. Plasma levels of adiponectin are reduced in obese humans, and decreased levels are associated with insulin resistance and hyperinsulinemia.

Concentration: 1 mg/ml

Form: Liquid. In Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% Glycerol

Storage: Can be stored at +4C. For long term storage, aliquot and store at -20C. Avoid repeated freezing and thawing cycles.

Usage: The antibody has been tested by ELISA, Western blot analysis and Flow cytometry to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by a reagent to obtain optimal results. Please note that **this antibody (1G12) has the specificity against collagen-like domain of adiponectin.**

Application: ELISA, WB, Flow cytometry

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



Manufactured for:

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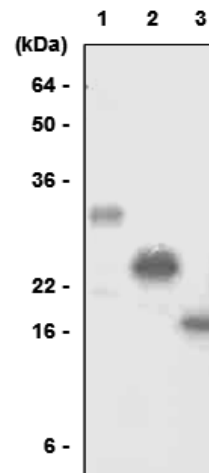
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Western blot analysis

The recombinant proteins and mouse liver lysates were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human adiponectin antibody (1:500). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Arrows indicate the oligomer and monomer of mAcrp30 protein in mouse liver.

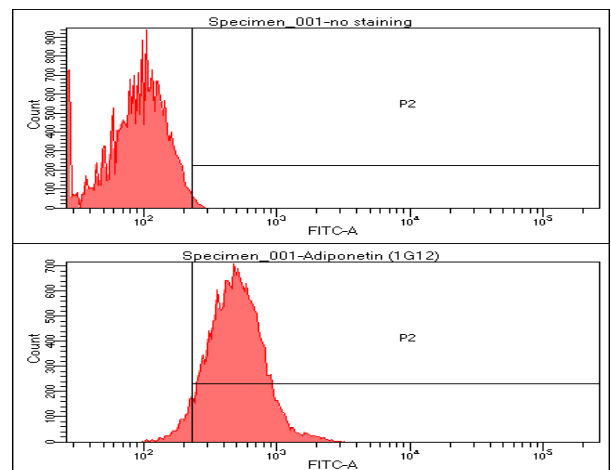
* gAcrp30 : globular domain of adiponectin



- 1: Recombinant human Acrp30 protein(full length)
- 2: Recombinant human gAcrp30- fusion protein
- 3: Recombinant mouse gAcrp30 protein

Flow cytometry

Flow cytometry analysis of Adiponectin in U87MG cell line, staining at 2-5ug for 1×10^6 cells. The secondary antibody used goat anti-mouse IgG Alexa fluor 488 conjugate.



- General references**
- Maeda K. *et al.*, (1996) *Biochem Biophys Res Commun.* 221:286-9.
 - Berg AH. *et al.*, (2001) *Nat Med*; 7:947-53
 - Berg AH. *et al.*, (2002) *Trends Endocrinol Metab.* 13: 84-89.
 - Yamauchi T. *et al.*, (2002) *Nat Med.* 8:1288-95

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