

Monoclonal anti-human Adiponectin antibody (clone AT5H7)

Mouse IgG₁, κ

Cat. No. IBAAD0614

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 5H7, 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, Flow cytometry and ICC/IF 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 (5H7) has the specificity against collagen-like domain of adiponectin.**

Application: ELISA, WB, Flow cytometry, ICC/IF

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



Manufactured for:

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Product information

Western blot analysis

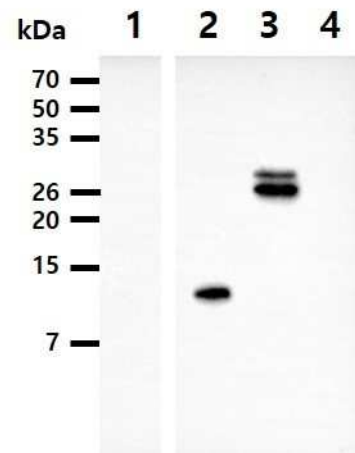
The Cell lysates (5ug) were resolved by SDS-PAGE, transferred to PVDF membrane and probed with anti-human Adiponectin antibody (1:2000). Proteins were visualized using a goat anti-mouse secondary antibody conjugated to HRP and an ECL detection system.

Lane 1. : 293T cell lysate

Lane 2. : Adiponectin collagen domain(15-107aa)
transfected 293T cell lysate

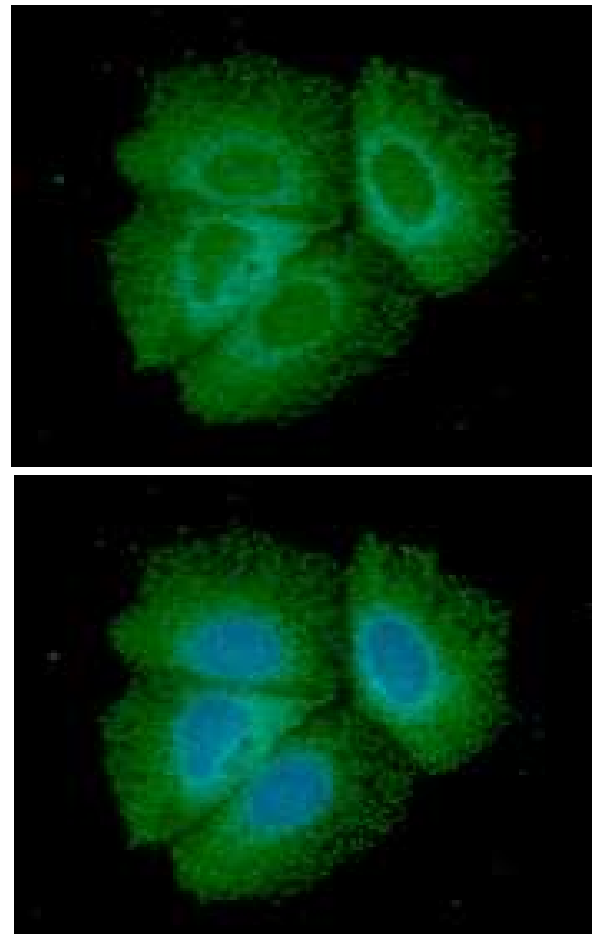
Lane 3. : Adiponectin Full domain(15-244aa)
transfected 293T cell lysate

Lane 4. : Adiponectin globular domain(108-244aa)
transfected 293T cell lysate



ICC/IF analysis

ICC/IF analysis of Adiponectin in Hep3B cells line, stained with DAPI (Blue) for nucleus staining and monoclonal anti-human Adiponectin antibody (1:100) with goat anti-mouse IgG-Alexa fluor 488 conjugate (Green).

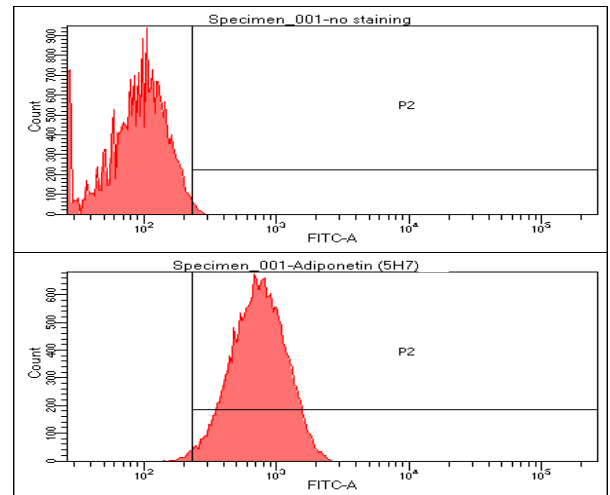


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Product information

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 Commu.* **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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