

# Human Adiponectin/Acrp30 antibody

Catalog Number: AAD0614

## PRODUCT INFORMATION

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**Catalog number**

AAD0614

**Clone No.**

5H7

**Product type**

Monoclonal Antibody

**UnitProt No.**

Q15848

**NCBI Accession No.**

NP\_004788

**Alternative Names**

ADIPOQ, ACDC, ACRP30, APM1, GBP28, 30 kDa adipocyte complement-related protein, Adipocyte complement-related 30 kDa protein, Adipocyte C1q and collagen domain-containing protein, Adipose most abundant gene transcript 1 protein, Gelatin-binding protein

## PRODUCT SPECIFICATION

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**Antibody Host**

Mouse

**Reacts With**

Human

**Concentration**

1mg/ml (determined by BCA assay)

**Formulation**

Liquid in. Phosphate-Buffered Saline (pH 7.4) with 0.02% Sodium Azide, 10% glycerol

**Immunogen**

Recombinant human adiponectin (15-244aa) purified from E. coli

**Isotype**

IgG1 kappa

**Purification Note**

By protein-G affinity chromatography

**Application**

ELISA, WB, ICC/IF

**Usage**

The antibody has been tested by ELISA, Western blot and ICC/IF analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results.

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## Storage

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### Description

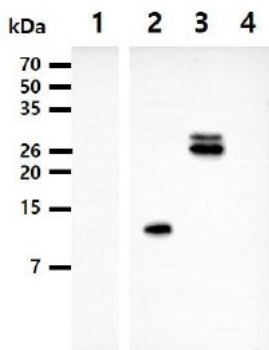
Human Adiponectin, also referred to as AdipoQ, Acrp30, apm-1 or GBP28, is a secreted protein expressed exclusively in differentiated adipocyte (an adipokine family member). Adiponectin contains a modular structure comprising an N-terminal collagenous domain followed by a C-terminal globular domain (gAcrp30). 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.

### General References

- Maeda K. et al., (1996) *Biochem Biophys Res Commun.* 221:286-289.  
Berg AH. et al., (2001) *Nat Med.* 7:947-953.  
Berg AH. et al., (2002) *Trends Endocrinol Metab.* 13:84-89.  
Yamauchi T. et al., (2002) *Nat Med.* 8:1288-1295.

## DATA

### Western blot analysis (WB)



The cell lysates (10ug) 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

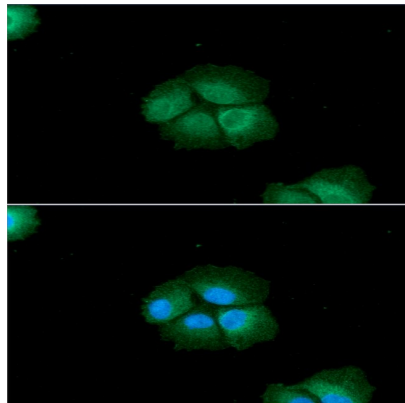
Lane 3. : Adiponectin Full domain(15-244aa) transfected 293T cell lysate

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

### Immunocytochemistry/Immunofluorescence (ICC/IF)

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ICC/IF analysis of Adiponectin in Hep3B cells. The cell was stained with AAD0614 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).