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Human Adiponectin/Acrp30 antibody

Catalog Number: AAD0614

PRODUCT INFORMATION

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

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

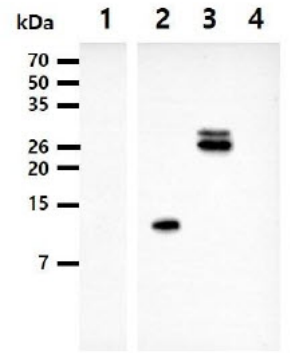
Human Adiponectin, also referred to as AdipoQ, Acrp30, apm-1 or GBP28, is a secreted protein expressed exclusively in differentiated adipocyte (an adipokine family member). Adiponectin contains a modular structure comprising an N-terminal collagenous domain followed by a C-terminal globular domain (gAcrp30).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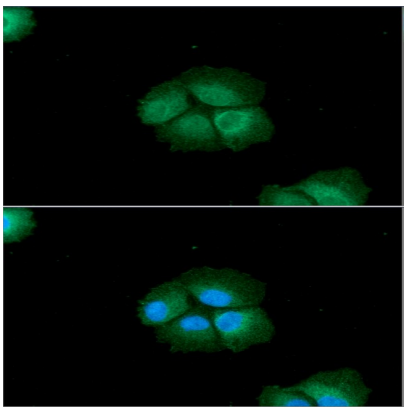

ICC/IF analysis of Adiponectin in Hep3B cells. The cell was stained with AAD0614 (1:100). The secondary antibody (green) was used Alexa Fluor 488. DAPI was stained the cell nucleus (blue).