

# Acrp30 (5H7): sc-53916

## BACKGROUND

Acrp30 (adipocyte complement-related protein or AdipoQ) is a secretory protein that is made exclusively in adipocytes and whose mRNA is induced over 100-fold during adipocyte differentiation. Acrp30 is an abundant serum protein secreted exclusively from fat cells, and is implicated in energy homeostasis and obesity. Due to the dysregulation in various forms of obesity in humans and mice, as well as its strong structural similarity to TNF $\alpha$ , Acrp30 is currently under study as an important molecule involved in whole body energy homeostasis. In addition, regulated exocytosis of Acrp30 appears to require phosphatidylinositol-3-kinase activity, since Insulin-stimulated Acrp30 secretion is blocked by pharmacologic inhibitors of this enzyme.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: ADIPOQ (human) mapping to 3q27.3.

## SOURCE

Acrp30 (5H7) is a mouse monoclonal antibody raised against amino acids 15-244 of Acrp30 of human origin.

## STORAGE

Store at 4° C, **\*\*DO NOT FREEZE\*\***. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

## RESEARCH USE

For research use only, not for use in diagnostic procedures.

## PRODUCT

Each vial contains 100  $\mu$ g IgG<sub>1</sub> in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

## APPLICATIONS

Acrp30 (5H7) is recommended for detection of Acrp30 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ g of total protein (1 ml of cell lysate)].

Suitable for use as control antibody for Acrp30 siRNA (h): sc-43600, Acrp30 shRNA Plasmid (h): sc-43600-SH and Acrp30 shRNA (h) Lentiviral Particles: sc-43600-V.

Molecular Weight of Acrp30 monomer: 30 kDa.

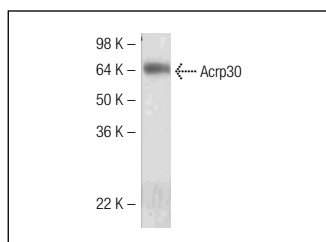
Molecular Weight of Acrp30 polymer: 250 kDa.

Positive Controls: MIA PaCa-2 cell lysate: sc-2285.

## RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-mouse IgG-HRP: sc-2005 (dilution range: 1:2000-1:32,000) or Cruz Marker™ compatible goat anti-mouse IgG-HRP: sc-2031 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

## DATA



Acrp30 (5H7): sc-53916. Western blot analysis of Acrp30 expression in mouse liver extract.

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.