SANTA CRUZ BIOTECHNOLOGY, INC.

Acrp30 (M14-6 (A)-H11): sc-73500

BACKGROUND

Acrp30 (adipocyte complement-related protein of 30 kDa or AdipoQ) is a secretory protein made exclusively in adipocytes with mRNA induced over 100-fold during adipocyte differentiation. Post-transcriptional modification of Acrp30 yields several oligomeric forms of varying molecular weight, including a monomer, a dimer, a trimer, a hexamer and a polymer. Acrp30 is an abundant serum protein, secreted exclusively from fat cells, and is implicated in energy homeostasis and obesity. Due to the dysregulation of Acrp30 in cases of obesity in humans and mice and the strong structural similarity to TNFα, Acrp30 is a suspected regulator of 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.

STORAGE

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

SOURCE

Acrp30 (M14-6 (A)-H11) is a mouse monoclonal antibody raised against recombinant Acrp30 of human origin.

PRODUCT

Each vial contains 100 µg IgG_{2b} in 1.0 ml PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Acrp30 (M14-6 (A)-H11) is recommended for detection of Acrp30 of human origin by solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

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.

RESEARCH USE

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

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.