

Acpr30 (Ne.na): sc-57017

BACKGROUND

Acpr30 (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. Posttranscriptional modification of Acpr30 yields several oligomeric forms of varying molecular weight, including a monomer, a dimer, a trimer, a hexamer and a polymer. Acpr30 is an abundant serum protein, secreted exclusively from fat cells, and is implicated in energy homeostasis and obesity. Due to the dysregulation of Acpr30 in cases of obesity in humans and mice and the strong structural similarity to TNF α , Acpr30 is a suspected regulator of whole body energy homeostasis. In addition, regulated exocytosis of Acpr30 appears to require PI 3-kinase activity, since insulin-stimulated Acpr30 secretion is blocked by pharmacologic inhibitors of this enzyme.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ADIPOQ (human) mapping to 3q27; Adipoq (mouse) mapping to 16.

SOURCE

Acpr30 (Ne.na) is a mouse monoclonal antibody raised against recombinant Acpr30 of human origin.

PRODUCT

Each vial contains 50 μ g IgG₁ in 0.5 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS

Acpr30 (Ne.na) is recommended for detection of Acpr30 of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000) and immunoprecipitation [1–2 μ g per 100–500 μ g of total protein (1 ml of cell lysate)].

Suitable for use as control antibody for Acpr30 siRNA (h): sc-43600.

Molecular Weight of LMW Acpr30 monomer: 30 kDa.

Molecular Weight of HMW Acpr30 polymer: >250 kDa.

Positive Controls: 3T3-L1 cell lysate: sc-2243 or 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).

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.

PROTOCOLS

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