SANTA CRUZ BIOTECHNOLOGY, INC.

Adipogenin (N-13): sc-85266

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

Adipogenin, also known as SMAF1 (small adipocyte factor 1) or ADIG, is an 80 amino acid single-pass membrane protein that localizes to the nucleus and contains an N-terminal leucine-rich region and a possible nuclear localization signal. Expressed at high levels in white adipose tissue and at lower levels in muscle, heart and stomach, Adipogenin plays an important role in stimulating adipocyte development and differentiation. The gene encoding human Adipogenin maps to chromosome 20. Comprising approximately 2% of the human genome, chromosome 20 contains nearly 63 million bases that encode over 600 genes, some of which are associated with Creutzfeldt-Jakob disease, amyotrophic lateral sclerosis, spinal muscular atrophy, ring chromosome 20 epilepsy syndrome and Alagille syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: ADIG (human) mapping to 20q11.23.

SOURCE

Adipogenin (N-13) is an affinity purified rabbit polyclonal antibody raised against a peptide mapping at the N-terminus of Adipogenin 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.

PROTOCOLS

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

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-85266 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Adipogenin (N-13) is recommended for detection of Adipogenin of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

Adipogenin (N-13) is also recommended for detection of Adipogenin in additional species, including canine.

Suitable for use as control antibody for Adipogenin siRNA (h): sc-72451, Adipogenin shRNA Plasmid (h): sc-72451-SH and Adipogenin shRNA (h) Lentiviral Particles: sc-72451-V.

Molecular Weight of Adipogenin: 9 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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