

resistin-like α (E-19): sc-16120

BACKGROUND

The cysteine-rich, adipose tissue-specific, secretory factor resistin (resistance to Insulin, also known as ADSF) is a secreted hormone that potentially links obesity to diabetes. Resistin is rich in serine and cysteine residues and contains a unique cysteine repeat motif. Resistin and the resistin-like molecules share the characteristic cysteine composition and other signature features. Resistin-like a is a secreted protein that has restricted tissue distribution and is most highly expressed in adipose tissue. Another family member, Resistin-like b, is a secreted protein expressed only in the gastrointestinal tract, particularly in the colon, in both mouse and human. Resistin-like b expression is highest in proliferative epithelial cells and is markedly increased in tumors, suggesting a role in intestinal proliferation.

REFERENCES

- Kim, K.H., et al. 2001. A cysteine-rich adipose tissue-specific secretory factor inhibits adipocyte differentiation. *J. Biol. Chem.* 276: 11252-11256.
- Dove, A. 2001. Resistin diabetes. *Nat. Biotechnol.* 19: 217.
- Steppan, C.M., et al. 2001. The hormone resistin links obesity to diabetes. *Nature* 409: 307-312.
- Steppan, C.M., et al. 2001. A family of tissue-specific resistin-like molecules. *Proc. Natl. Acad. Sci. USA* 98: 502-506.
- Flier, J.S. 2001. Diabetes. The missing link with obesity? *Nature* 409: 292-293.
- Vendrell, J., et al. 2004. Resistin, adiponectin, ghrelin, leptin, and proinflammatory cytokines: relationships in obesity. *Obes Res* 12: 962-971.
- Patel, S.D., et al. 2004. Disulfide-dependent multimeric assembly of resistin family hormones. *Science* 304: 1154-1158.
- Steppan, C.M., et al. 2004. The current biology of resistin. *J. Intern. Med.* 255: 439-447.
- Banerjee, R.R., et al. 2004. Regulation of fasted blood glucose by resistin. *Science* 303: 1195-1198.

CHROMOSOMAL LOCATION

Genetic locus: Retnla (mouse) mapping to 16 B5.

SOURCE

resistin-like α (E-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of resistin-like α of mouse origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-16120 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

resistin-like α (E-19) is recommended for detection of resistin-like α of mouse 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).

Suitable for use as control antibody for resistin-like α siRNA (m): sc-39724, resistin-like α shRNA Plasmid (m): sc-39724-SH and resistin-like α shRNA (m) Lentiviral Particles: sc-39724-V.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (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 donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

SELECT PRODUCT CITATIONS

- Chauhan, S., et al. 2004. Androgen control of cell proliferation and cytoskeletal reorganization in human fibrosarcoma cells: role of RhoB signaling. *J. Biol. Chem.* 279: 937-944.

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.



Try **resistin-like α (R-18): sc-80324**, our highly recommended monoclonal alternative to resistin-like α (E-19).