

resistin (H-70): sc-15401

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 β , is a secreted protein expressed only in the gastrointestinal tract, particularly in the colon, in both mouse and human. Resistin-like β 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.
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- 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.
- Vendrell, J., et al. 2004. Resistin, adiponectin, ghrelin, Leptin, and pro-inflammatory cytokines: relationships in obesity. *Obes. Res.* 12: 962-971.
- Banerjee, R.R., et al. 2004. Regulation of fasted blood glucose by resistin. *Science* 303: 1195-1198.

CHROMOSOMAL LOCATION

Genetic locus: RETN (human) mapping to 19p13.2.

SOURCE

resistin (H-70) is a rabbit polyclonal antibody raised against amino acids 1-70 of resistin of human origin.

PRODUCT

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

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.

APPLICATIONS

resistin (H-70) is recommended for detection of resistin of human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)], 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).

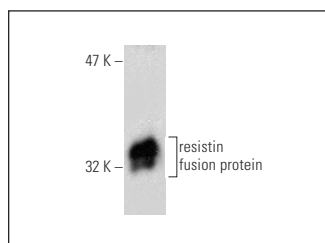
Suitable for use as control antibody for resistin siRNA (h): sc-39722, resistin shRNA Plasmid (h): sc-39722-SH and resistin shRNA (h) Lentiviral Particles: sc-39722-V.

Molecular Weight of resistin: 12.5 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

DATA



resistin (H-70): sc-15401. Western blot analysis of human recombinant resistin fusion protein.

SELECT PRODUCT CITATIONS

- Harrison, W.J., et al. 2007. Expression of lipogenic factors galectin-12, resistin, SREBP-1, and SCD in human sebaceous glands and cultured sebocytes. *J. Invest. Dermatol.* 127: 1309-1317.
- Wang, J., et al. 2010. Relationship of adiponectin and resistin levels in umbilical serum, maternal serum and placenta with neonatal birth weight. *Aust. N. Z. J. Obstet. Gynaecol.* 50: 432-438.


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Try **resistin (C-10): sc-376336** or **resistin (500-M91): sc-65374**, our highly recommended monoclonal alternatives to resistin (H-70). Also, for AC, HRP, FITC, PE, Alexa Fluor® 488 and Alexa Fluor® 647 conjugates, see **resistin (C-10): sc-376336**.