

# resistin-like $\beta$ (E-13): sc-241654

## 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  $\alpha$  is a secreted protein that has restricted tissue distribution and is most highly expressed in adipose tissue. Another family member, resistin-like  $\beta$ , is a secreted protein expressed only in the gastrointestinal tract, particularly in the colon, in both mouse and human. Resistin-like  $\beta$  expression is highest in proliferative epithelial cells and is markedly increased in tumors, suggesting a role in intestinal proliferation.

## REFERENCES

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- Flier, J.S. 2001. Diabetes. The missing link with obesity? *Nature* 409: 292-293.
- 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 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.
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## CHROMOSOMAL LOCATION

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

## SOURCE

resistin-like  $\beta$  (E-13) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of resistin-like  $\beta$  of mouse origin.

## PRODUCT

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

Blocking peptide available for competition studies, sc-241654 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## STORAGE

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

## APPLICATIONS

resistin-like  $\beta$  (E-13) is recommended for detection of resistin-like  $\beta$  of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2  $\mu$ g per 100-500  $\mu$ 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); non cross-reactive with resistin-like  $\alpha$  or resistin-like  $\gamma$ .

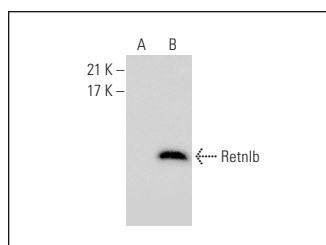
Suitable for use as control antibody for resistin-like  $\beta$  siRNA (m): sc-152817, resistin-like  $\beta$  shRNA Plasmid (m): sc-152817-SH and resistin-like  $\beta$  shRNA (m) Lentiviral Particles: sc-152817-V.

Positive Controls: Retnlb (m): 293T Lysate: sc-123078.

## 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) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) 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.

## DATA



resistin-like  $\beta$  (E-13): sc-241654. Western blot analysis of Retnlb expression in non-transfected: sc-117752 (A) and mouse Retnlb transfected: sc-123078 (B) 293T whole cell lysates.

## RESEARCH USE

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

## PROTOCOLS

See our web site at [www.scbt.com](http://www.scbt.com) or our catalog for detailed protocols and support products.