SANTA CRUZ BIOTECHNOLOGY, INC.

RELT (H-220): sc-98478

SANTA CRUZ BIOTECHNOLOGY

The Power to Question

BACKGROUND

RELT (receptor expressed in lymphoid tissues), also known as tumor necrosis factor receptor superfamily member 19L (TNFRSF19L), is a transmembrane glycoprotein. It is expressed in thymus, spleen, testis, colon, skeletal muscle and peripheral blood lymphocytes. RELT contains two cysteine rich domains (although one is incomplete) and does not contain the death domain that is present in some of the TNFR family members. Unlike the other family members that also lack the death domain, RELT does not bind the TRAF adaptor proteins. RELT binds and is phosphorylated by SPAK. This interaction is required for the activation of p38 and JNK signaling. RELT also interacts with, and is phosphorylated by, OSR1 kinase. In addition, RELT may be involved in T cell activation. The overexpression of RELT induces phosphorylation of c-Jun and ATF-2. This implies the activation of the JNK and p38 signaling cascades.

REFERENCES

1. Sica, G.L., Zhu, G., Tamada, K., Liu, D., Ni, J. and Chen, L. 2001. RELT, a new member of the tumor necrosis factor receptor superfamily, is selectively expressed in hematopoietic tissues and activates transcription factor NFκB. Blood 97: 2702-2707.
2. Zhang, G. 2004. Tumor necrosis factor family ligand-receptor binding. Curr. Opin. Struct. Biol. 14: 154-160.

CHROMOSOMAL LOCATION

Genetic locus: RELT (human) mapping to 11q13.4; Relt (mouse) mapping to 7 E3.

SOURCE

RELT (H-220) is a rabbit polyclonal antibody raised against amino acids 129-348 mapping within an internal region of RELT of human origin.

PRODUCT

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

APPLICATIONS

RELT (H-220) is recommended for detection of RELT of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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).

RELT (H-220) is also recommended for detection of RELT in additional species, including equine, canine and bovine.

Suitable for use as control antibody for RELT siRNA (h): sc-72389, RELT siRNA (m): sc-152798, RELT shRNA Plasmid (h): sc-72389-SH, RELT shRNA Plasmid (m): sc-152798-SH, RELT shRNA (h) Lentiviral Particles: sc-72389-V and RELT shRNA (m) Lentiviral Particles: sc-152798-V.

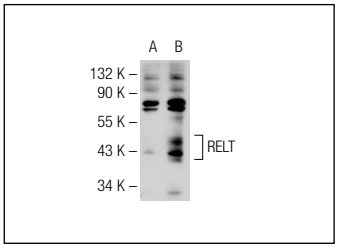
Molecular Weight of RELT: 46 kDa.

Positive Controls: RELT (h2): 293T Lysate: sc-159793.

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



RELT (H-220): sc-98478. Western blot analysis of RELT expression in non-transfected: sc-117752 (**A**) and human RELT transfected: sc-159793 (**B**) 293T whole cell lysates.

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.