SANTA CRUZ BIOTECHNOLOGY, INC.

RELT (h2): 293T Lysate: sc-159793

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

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7. Bossen, C., Ingold, K., Tardivel, A., Bodmer, J.L., Gaide, O., Hertig, S., Ambrose, C., Tschopp, J. and Schneider, P. 2006. Interactions of tumor necrosis factor (TNF) and TNF receptor family members in the mouse and human. J. Biol. Chem. 281: 13964-13971.

CHROMOSOMAL LOCATION

Genetic locus: RELT (human) mapping to 11q13.4.

PRODUCT

RELT (h2): 293T Lysate represents a lysate of human RELT transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

RELT (h2): 293T Lysate is suitable as a Western Blotting positive control for human reactive RELT antibodies. Recommended use: 10-20 µl per lane.

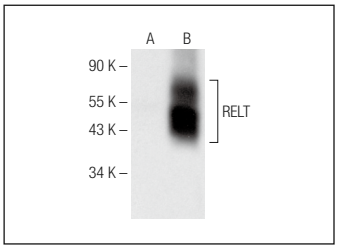
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RELT (C-6): sc-373942 is recommended as a positive control antibody for Western Blot analysis of enhanced human RELT expression in RELT transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-IgGκ BP-HRP: sc-516102 or m-IgGκ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker™ Molecular Weight Standards: sc-2035, UltraCruz® Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA



RELT (C-6): sc-373942. Western blot analysis of RELT expression in non-transfected: sc-117752 (**A**) and human RELT transfected: sc-159793 (**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 for detailed protocols and support products.