



## REL T (V-12): sc-109420

### BACKGROUND

REL T (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. REL T 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, REL T does not bind the TRAF adaptor proteins. REL T binds and is phosphorylated by SPAK. This interaction is required for the activation of p38 and JNK signaling. REL T also interacts with, and is phosphorylated by, OSR1 kinase. In addition, REL T may be involved in T cell activation. The overexpression of REL T induces phosphorylation of c-Jun and ATF-2. This implies the activation of the JNK and p38 signaling cascades.

### REFERENCES

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2. Zhang, G. 2004. Tumor necrosis factor family ligand-receptor binding. *Curr. Opin. Struct. Biol.* 14: 154-160.
3. Foster, D., Parrish-Novak, J., Fox, B. and Xu, W. 2004. Cytokine-receptor pairing: accelerating discovery of cytokine function. *Nat. Rev. Drug Discov.* 3: 160-170.
4. Cusick, J.K., Xu, L.G., Bin, L.H., Han, K.J. and Shu, H.B. 2006. Identification of REL T homologues that associate with REL T and are phosphorylated by OSR1. *Biochem. Biophys. Res. Commun.* 340: 535-543.
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6. Polek, T.C., Talpaz, M. and Spivak-Kroizman, T.R. 2006. TRAIL-induced cleavage and inactivation of SPAK sensitizes cells to apoptosis. *Biochem. Biophys. Res. Commun.* 349: 1016-1024.
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### CHROMOSOMAL LOCATION

Genetic locus: REL T (human) mapping to 11q13.4; Rel t (mouse) mapping to 7 E3.

### SOURCE

REL T (V-12) is an affinity purified goat polyclonal antibody raised against a peptide mapping within a cytoplasmic domain of REL T of human origin.

### STORAGE

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

### 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-109420 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

### APPLICATIONS

REL T (V-12) is recommended for detection of REL T of mouse, rat and human 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 REL T siRNA (h): sc-72389, REL T siRNA (m): sc-152798, REL T shRNA Plasmid (h): sc-72389-SH, REL T shRNA Plasmid (m): sc-152798-SH, REL T shRNA (h) Lentiviral Particles: sc-72389-V and REL T shRNA (m) Lentiviral Particles: sc-152798-V.

Molecular Weight of REL T: 46 kDa.

### 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.

### 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.