

# GITRL (C-18): sc-5764

## BACKGROUND

GITRL (glucocorticoid-induced TNF-related ligand), a polypeptide encoded by a human umbilical endothelial cell cDNA, is a member of the TNF (tumor necrosis factor) superfamily. GITRL has a type 2 transmembrane topology that is characteristic of the TNF family. The TNF superfamilies regulate diverse biological functions, including cell proliferation, differentiation and survival. GITRL is found on vascular endothelial cells and in several peripheral tissues (small intestine, ovary, testis and kidney) where it may modulate T lymphocyte survival. The receptor that recognizes GITRL is GITR and the two interact to regulate NF $\kappa$ B activation. The ligand-receptor pair of GITRL-GITR protects cells against AICD (activation-induced cell death).

## REFERENCES

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2. Gruss, H.J. and Dower, S.K. 1995. Tumor necrosis factor ligand superfamily: involvement in the pathology of malignant lymphomas. *Blood* 85: 3378-3404.
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## CHROMOSOMAL LOCATION

Genetic locus: TNFSF18 (human) mapping to 1q23.

## SOURCE

GITRL (C-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of GITRL of human 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-5764 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.

## RESEARCH USE

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

## APPLICATIONS

GITRL (C-18) is recommended for detection of GITRL of 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).

GITRL (C-18) is also recommended for detection of GITRL in additional species, including porcine.

Suitable for use as control antibody for GITRL siRNA (h): sc-39827, GITRL shRNA Plasmid (h): sc-39827-SH and GITRL shRNA (h) Lentiviral Particles: sc-39827-V.

Molecular Weight of GITRL: 20 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.

## SELECT PRODUCT CITATIONS

1. Kim, B.J., Li, Z., Fariss, R.N., Shen, D., Mahesh, S.P., Ekwuagu, C., Yu, C.R., Nagineni, C.N., Chan, C.C. and Nussenblatt, R.B. 2004. Constitutive and cytokine-induced GTR ligand expression on human retinal pigment epithelium and photoreceptors. *Invest. Ophthalmol. Vis. Sci.* 45: 3170-3176.

## PROTOCOLS

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Try **GITRL (EB11): sc-53973**, our highly recommended monoclonal alternative to GITRL (C-18).