

# GITR (ANC7D6-1B7): sc-66184

## BACKGROUND

The tumor necrosis factor receptor (TNFR) superfamily represents a growing family of type I transmembrane glycoproteins that are involved in various cellular functions, including proliferation, differentiation and programmed cell death. These proteins share homology for cysteine-rich repeats in the extracellular ligand binding domain and an intracellular death domain. Members of the TNFR superfamily transmit signals through protein-protein interactions, and these signals can lead to the activation of either the caspase and Jun kinase pathways, which promote cell death, or the NFκB pathway, which results in cell survival. The glucocorticoid-induced tumor necrosis factor receptor family-related protein (GITR) is a member of the TNFR superfamily that is preferentially expressed in normal T lymphocytes from thymus, spleen and lymph nodes. GITR shares similarity with Ox40, 4-1BB and CD27 and is thought to inhibit T cell receptor-mediated cell death through the activation of the NFκB signaling pathway.

## REFERENCES

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## CHROMOSOMAL LOCATION

Genetic locus: TNFRSF18 (human) mapping to 1p36.3.

## STORAGE

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

## SOURCE

GITR (ANC7D6-1B7) is a mouse monoclonal antibody raised against PHA stimulated PBL and recombinant GITR of human origin.

## PRODUCT

Each vial contains 100 µg IgM in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as phycoerythrin (sc-66184 PE) or fluorescein (sc-66184 FITC) conjugates for flow cytometry, 100 tests.

## APPLICATIONS

GITR (ANC7D6-1B7) is recommended for detection of GITR of human origin by flow cytometry (1 µg per 1 x 10<sup>6</sup> cells).

Suitable for use as control antibody for GITR siRNA (h): sc-43806, GITR shRNA Plasmid (h): sc-43806-SH and GITR shRNA (h) Lentiviral Particles: sc-43806-V.

Molecular Weight of GITR: 25 kDa.

## 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.