

LEAF™ Purified anti-mouse CD357 (GITR)

Catalog # / Size: 126303 / 50 µg
126304 / 500 µg

Clone: DTA-1

Isotype: Rat IgG2b, λ

Immunogen: mouse CD25⁺CD4⁺ T cells

Reactivity: mouse

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.

Applications:

Applications: FC - *Quality tested*
IP, FA - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl volume or 100 µl of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Description: GITR glucocorticoid-induced TNFR-related gene, is a member of the TNF receptor superfamily, also known as TNFRSF18, and AITR (in humans). It is expressed at low levels on resting T lymphocytes and at high levels on CD25⁺CD4⁺Treg cells. The expression of GITR on T cells can be upregulated upon activation. Interaction of GITR with its ligand (GITRL) has been demonstrated to augment T cell activation, proliferation, cytokine production, as well as MAPKs and NF-κB activation, and abrogate the inhibitory function of CD25⁺CD4⁺ T reg cells. In vivo activation of GITR causes development of autoimmune diseases and restores the suppressed immune response.

Antigen References:

1. Tone M, *et al.* 2003. *Proc.Natl.Acad.Sci.USA* 100:15059
2. Shimzu J, *et al.* 2002 *Nat Immunol* 3:135
3. Stephens GL, *et al.* 2004. *J. Immunol.* 173:5008
4. McHugh RS, *et al.* 2002. *Immunity* 16:311



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