

# Product Data Sheet

## Biotin anti-mouse CD357 (GITR)

**Catalog # / Size:** 126305 / 50 µg  
126306 / 200 µg

**Clone:** DTA-1

**Isotype:** Rat IgG2b, λ

**Immunogen:** mouse CD25<sup>+</sup>CD4<sup>+</sup> T cells

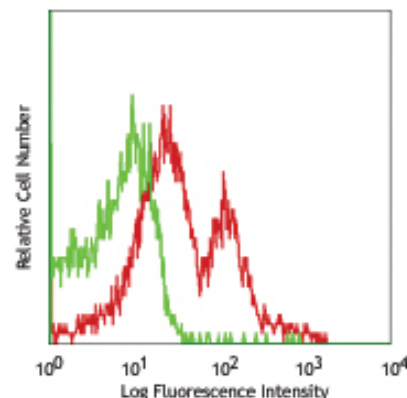
**Reactivity:** mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.5 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



C57BL/6 mouse splenocytes stained with biotinylated DTA-1, followed by Sav-PE

## Applications:

**Applications:** FC - Quality tested

**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 ≤ 0.25 µg per 10<sup>6</sup> cells in 100 µl volume. 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<sup>+</sup>CD4<sup>+</sup>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<sup>+</sup>CD4<sup>+</sup> 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

**Related Products:** **Product**  
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**Clone**  
93

**Application**  
FC



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