SONY

Product Data Sheet

APC anti-mouse CD357 (GITR)

Catalog # / Size: 1231560 / 100 µg
1231555 / 25 µg

Clone: DTA-1

Isotype: Rat IgG2b, λ

Immunogen: Mouse CD25+ CD4+ T cells

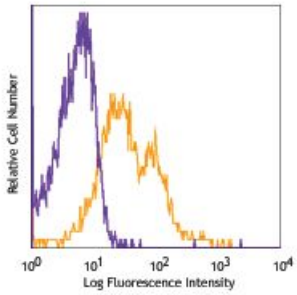
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions.

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

Workshop Number: 750 under optimal conditions.

Concentration: 0.2



C57BL/6 splenocytes stained with DTA-1 APC

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.25 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application References:

1. De Luca A, *et al.* 2007. *J. Immunol.* 179:5999. PubMed

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 $CD25^+$ $CD4^+$ Tregs. 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 $CD25^+$ $CD4^+$ Tregs. *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. Shimizu 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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