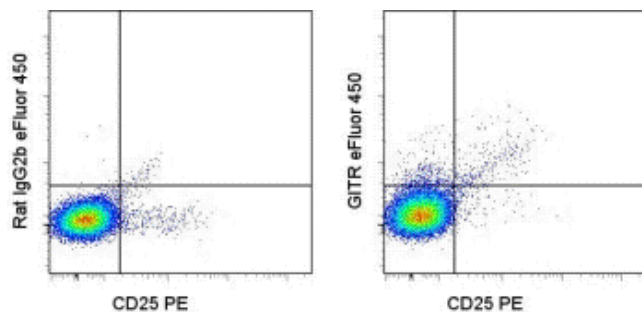


Anti-Mouse CD357 (GITR) eFluor® 450

Catalog Number: 48-5874

Also Known As: TNFRSF18, AITR, glucocorticoid-induced TNFR-related

RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of C57BL/6 splenocytes with Anti-Mouse CD25 PE (cat. 12-0251) and 0.03 µg of Rat IgG2b K Isotype Control eFluor® 450 (cat. 48-4031) (left) or 0.03 µg of Anti-Mouse CD357 (GITR) eFluor® 450 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse CD357 (GITR) eFluor® 450

REF **Catalog Number:** 48-5874

Clone: DTA-1

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2b, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.



Batch Code: Refer to Vial



Use By: Refer to Vial

Description

The DTA-1 monoclonal antibody reacts with mouse GITR, Glucocorticoid-Induced TNFR family gene, also known as TNFRSF18. In naïve mice, GITR is expressed predominantly by CD4+CD25+ T regulatory cells (Treg) and by CD25+ CD4+ CD8- thymocytes. Stimulation of GITR with DTA-1 antibody abrogates Treg cell-mediated suppression. Although it does not deplete CD357 expressing cells in vivo, it has been shown to induce tumorigenesis. The removal of GITR-expressing Treg cells or the administration of DTA-1 resulted in organ specific autoimmune disease.

Applications Reported

This DTA-1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This DTA-1 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.06 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor™ 450 is a replacement for Pacific Blue®. eFluor™ 450 emits at 456 nm and is excited with the Violet laser (405 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

References

Ko K, Yamazaki S, Nakamura K, Nishioka T, Hirota K, Yamaguchi T, Shimizu J, Nomura T, Chiba T, Sakaguchi S. Treatment of advanced tumors with agonistic anti-GITR mAb and its effects on tumor-infiltrating Foxp3+CD25+CD4+ regulatory T cells. J Exp Med. 2005 Oct 3;202(7):885-91. (DTA-1, FA)

Shimizu J, Yamazaki S, Takahashi T, Ishida Y, Sakaguchi S. Stimulation of CD25(+)CD4(+) regulatory T cells through GITR breaks immunological self-tolerance. Nat Immunol. 2002 Feb;3(2):135-42.

Related Products

12-0251 Anti-Mouse CD25 PE (PC61.5)

48-4031 Rat IgG2b K Isotype Control eFluor® 450