

CD357 (AITR/GITR) Monoclonal Antibody (DTA-1), Super Bright™ 436, eBioscience™

| Product Details | |
|-----------------------------|---|
| Size | 100 µg |
| Species Reactivity | Mouse |
| Host/Isotype | Rat / IgG2b, kappa |
| Recommended Isotype Control | Rat IgG2b kappa Isotype Control (eB149/10H5), Super Bright™ 436, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | DTA-1 |
| Conjugate | Super Bright™ 436 |
| Excitation/Emission Max | 413/431 nm |
| Form | Liquid |
| Concentration | 0.2 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2, with BSA |
| Contains | 0.09% sodium azide |
| Storage conditions | 4° C, store in dark, DO NOT FREEZE! |
| RRID | AB_2744806 |

| Applications | Tested Dilution | Publications |
|-----------------------|-----------------|--------------|
| Flow Cytometry (Flow) | 0.25 µg/test | - |

Product Specific Information

Description: The DTA-1 monoclonal antibody reacts with mouse GITR, Glucocorticoid-Induced TNFR family gene, also known as TNFRSF18. In naive 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 0.25 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.

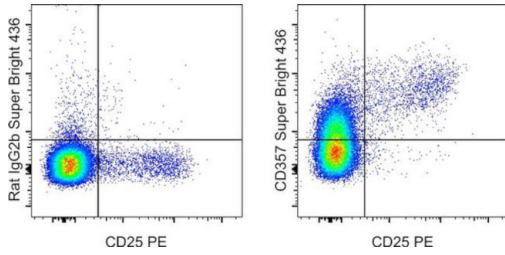
Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD357 (AITR/GITR) Monoclonal Antibody (DTA-1), Super Bright™ 436, eBioscience™



CD357 (AITR/GITR) Antibody (62-5874-82) in Flow

BALB/c mouse splenocytes were stained with CD25 Monoclonal Antibody, PE (Product # 12-0251-82) and 0.125 µg of Rat IgG2b kappa Isotype Control, Super Bright 436 (Product # 62-4031-82) (left) or 0.125 µg of CD357 Monoclonal Antibody, Super Bright 436 (right). Cells in the lymphocyte gate were used for analysis.

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