

CD357 (AITR/GITR) Monoclonal Antibody (DTA-1), Super Bright™ 702, 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™ 702, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	DTA-1
Conjugate	Super Bright™ 702
Excitation/Emission Max	413/702 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_2717177

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.3 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 may be used at less than or equal to 0.03 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 702 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 702 nm. We recommend using a 710/50 bandpass filter. 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.

Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from

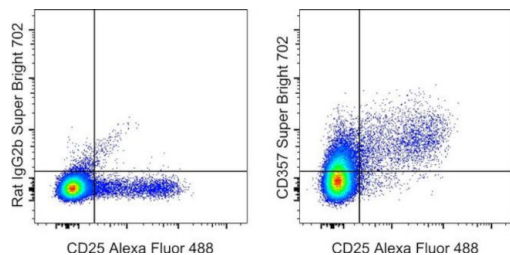
light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 405 nm; Emission: 702 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™ 702, eBioscience™



CD357 (AITR/GITR) Antibody (67-5874-82) in Flow

BALB/c mouse splenocytes were stained with CD25 Monoclonal Antibody, Alexa Fluor 488 (Product # 53-0251) and 0.015 μ g of Rat IgG2b kappa Isotype Control, Super Bright 702 (Product # 67-4031) (left) or 0.015 μ g of CD357 Monoclonal Antibody, Super Bright 702 (Product # 67-5874) (right). Cells in the lymphocyte gate were used for analysis.

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