

TIGIT Monoclonal Antibody (GIGD7), Super Bright™ 702, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), Super Bright™ 702, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	GIGD7
Conjugate	Super Bright™ 702
Immunogen	mTIGIT-Fc treated with 4% PFA
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_2723713

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 µg/test	1 Publication

Product Specific Information

Description: The GIGD7 monoclonal antibody reacts with mouse T cell immunoreceptor with Ig and ITIM domains (TIGIT, VSTM3, WUCAM), a 26 kDa protein that is a member of the poliovirus receptor (PVR) family. In mice, the expression of TIGIT has been reported in follicular T helper cells, while in humans, the expression of TIGIT has been reported on NK cells, regulatory T cells, follicular T helper cells, memory CD4+ T cells, and CD8+ T cells. TIGIT is not expressed on B cells or naive CD4+ T cells. TIGIT is upregulated on CD4+ T cells following activation. TIGIT can interact with certain members of the PVR and PVR-like families, including CD155, and also mediates the interaction of NK cells and T cells with antigen presenting cells, fibroblasts and endothelial cells that express PVR and PVR-like proteins.

Applications Reported: This GIGD7 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This GIGD7 antibody has been tested by flow cytometric analysis of mouse splenocytes. This may be used at less than or equal to 1.0 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.

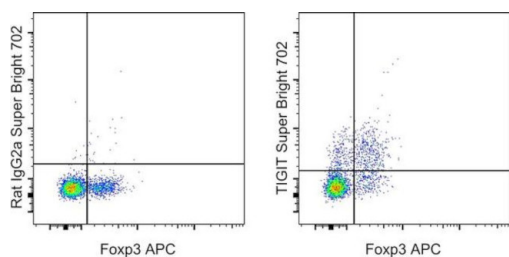
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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 TIGIT Monoclonal Antibody (GIGD7), Super Bright™ 702, eBioscience™



TIGIT Antibody (67-9501-82) in Flow

SJL mouse splenocytes were stained with CD4 Monoclonal Antibody, APC (Product # 17-0042-82) and 1.0 μ g of Rat IgG2a kappa Isotype Control, Super Bright 702 (Product # 67-4321-82) (left) or 1.0 μ g of TIGIT Monoclonal Antibody, Super Bright 702 (right). Cells were then stained intracellularly, using the Foxp3/Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol, with Foxp3 Monoclonal Antibody, APC (Product # 17-5773-82). Cells in the CD4+ lymphocyte gate were used for analysis.

1 Reference

Flow Cytometry (1)

Cell reports

Divergent fates of antigen-specific CD8⁺ T cell clones in mice with acute leukemia.

"Published figure using TIGIT monoclonal antibody (Product # 67-9501-82) in Flow Cytometry"

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Year
2021

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