

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

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	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
Excitation/Emission Max	413/702 nm
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	2 Publications

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.

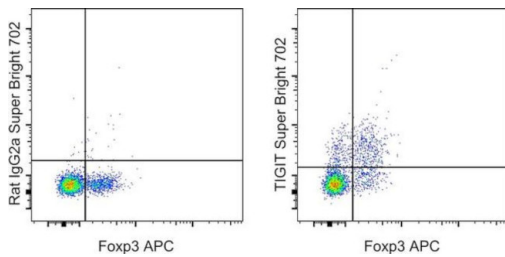
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 µL of cell sample + 100 µL 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 µg of Rat IgG2a kappa Isotype Control, Super Bright 702 (Product # 67-4321-82) (left) or 1.0 µg of TIGIT Monoclonal Antibody, Super Bright 702 (right). Cells were then stained intracellularly, using the Fxp3 /Transcription Factor Staining Buffer Set (Product # 00-5523-00) and protocol, with Fxp3 Monoclonal Antibody, APC (Product # 17-5773-82). Cells in the CD4+ lymphocyte gate were used for analysis.

2 References

Flow Cytometry (2)

iScience

PD-1 expression on mouse intratumoral NK cells and its effects on NK cell phenotype.

"67-9501-82 was used in Flow cytometry/Cell sorting to demonstrate that there may be a role for the PD-1/PD-L1 axis in tumor-infiltrating NK cells in vivo."

Authors: Wagner AK, Kadri N, Tibbitt C, van de Ven K, Bagawath-Singh S, Oliinyk D, LeGresley E, Campbell N, Trittel S, Riese P, Ribacke U, Sandalova T, Achour A, Kärre K, Chambers BJ

Year
2022

Species
Mouse

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"

Authors: Chen X, MacNabb BW, Flood B, Blazar BR, Kline J

Year
2021

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.