TCR gamma/delta Monoclonal Antibody (eBioGL3 (GL-3, GL3)), Super Bright™ 645, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Super Bright™ 645, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBioGL3 (GL-3, GL3)
Conjugate	Super Bright™ 645
Excitation/Emission Max	414/645 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_2802451

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	1 Publication

Product Specific Information

Description: The GL3 monoclonal antibody (mAb) reacts with the gamma delta T-cell Receptor complex (TCR) on all gamma delta TCR bearing T cells, but it does not react with alpha beta TCR. The gamma delta TCR is present on cells in the thymus, epidermis, epithelial lining of the intestine, peritoneal cavity, and lymphoid tissues.

Applications Reported: This GL3 (GL-3) antibody has been reported for use in flow cytometric analysis.

It is recommended to prestain cells with anti-mouse CD16/32 (Product # 14-0161-85) to prevent non-specific Fc-mediated binding of the GL3 monoclonal antibody.

Applications Reported: This GL3 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This GL3 antibody has been tested by flow cytometric analysis of mouse lymph node cells. This may be used at less than or equal to 0.5 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 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Super Bright 645 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 645 nm. We recommend using a 660/20 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.

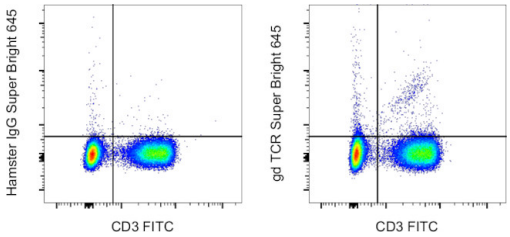
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222-49) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333-57) 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: 645 nm; Laser: Violet Laser

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

Product Images For TCR gamma/delta Monoclonal Antibody (eBioGL3 (GL-3, GL3)), Super Bright™ 645, eBioscience™



TCR gamma/delta Antibody (64-5711-82) in Flow
C57BL/6 mouse lymph node cells were stained with CD3e Monoclonal Antibody, FITC (Product # 11-0031-82) and 0.25 µg of Armenian Hamster IgG Isotype Control, Super Bright 645 (Product # 64-4888-82) (left) or 0.25 µg of TCR gamma /delta Monoclonal Antibody, Super Bright 645 (right). Cells in the lymphocyte gate were used for analysis.

1 Reference

Flow Cytometry (1)

Nature communications

Nociceptive sensory neurons promote CD8 T cell responses to HSV-1 infection.

"Published figure using TCR gamma/delta monoclonal antibody (Product # 64-5711-82) in Flow Cytometry"

Authors: Filtjens J,Roger A,Quatrini L,Wieduwild E,Gouilly J,Hoeffel G,Rossignol R,Daher C,Debroas G,Henri S,Jones CM,Malissen B,Mackay LK,Moqrich A,Carbone FR,Ugolini S

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2021