

CD103 (Integrin alpha E) Monoclonal Antibody (2E7), Super Bright™ 600, 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™ 600, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2E7
Conjugate	Super Bright™ 600
Excitation/Emission Max	414/601 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_2802433

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1.0 µg/test	6 Publications

Product Specific Information

Description: The 2E7 monoclonal antibody reacts with mouse CD103, the alpha-E integrin. CD103 non-covalently associates with integrin beta7 and is expressed on all intraepithelial lymphocytes, a small subset of peripheral lymphocytes, and dendritic epidermal T cells (DEC). Epithelial cell antigen E-cadherin binds to CD103 and mediates homing of lymphocytes to the intestinal epithelium.

Applications Reported: This 2E7 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 2E7 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 600 is a tandem dye that can be excited with the violet laser line (405 nm) and emits at 600 nm. We recommend using a 610/20 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.

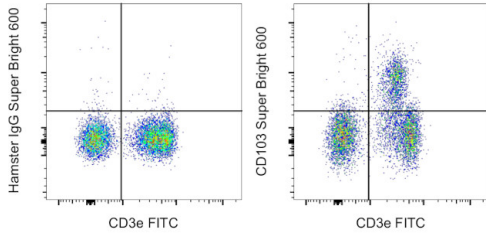
Light sensitivity: This tandem dye is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

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: 600 nm; Laser: Violet Laser

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

Product Images For CD103 (Integrin alpha E) Monoclonal Antibody (2E7), Super Bright™ 600, eBioscience™



CD103 (Integrin alpha E) Antibody (63-1031-82) in Flow

C57BL/6 mouse lymph node cells were stained with CD3e Monoclonal Antibody, FITC (Product # 11-0031-82) and 1.0 µg of Armenian Hamster IgG Isotype Control, Super Bright 600 (Product # 63-4888-82) (left) or 1.0 µg of CD103 Monoclonal Antibody, Super Bright 600 (right). Total viable cells were used for analysis, as determined by 7-AAD (Product # 00-6993-50).

[View more figures on thermofisher.com](#)

6 References

Flow Cytometry (6)

iScience

Profiling of Tregs across tissues reveals plasticity in ST2 expression and hierarchies in tissue-specific phenotypes.

"Published figure using CD103 (Integrin alpha E) monoclonal antibody (Product # 63-1031-82) in Flow Cytometry"

Authors: Spath S, Roan F, Presnell SR, Höllbacher B, Ziegler SF

Year
2022

Therapeutic advances in medical oncology

Inhibition of the Wnt/-catenin pathway enhances antitumor immunity in ovarian cancer.

"Published figure using CD103 (Integrin alpha E) monoclonal antibody (Product # 63-1031-82) in Flow Cytometry"

Authors: Doo DW, Meza-Perez S, Londoño AI, Goldsberry WN, Katre AA, Boone JD, Moore DJ, Hudson CT, Betella I, McCaw TR, Gangrade A, Bao R, Luke JJ, Yang ES, Birrer MJ, Starenki D, Cooper SJ, Buchsbaum DJ, Norian LA, Randall TD, Arend RC

Year
2022

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More applications with references on thermofisher.com

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