

CD103 (Integrin alpha E) Monoclonal Antibody (2E7), Brilliant Ultra Violet™ 737, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Host/Isotype	Armenian hamster / IgG
Recommended Isotype Control	Armenian Hamster IgG Isotype Control (eBio299Arm), Brilliant Ultra Violet™ 737, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	2E7
Conjugate	Brilliant Ultra Violet™ 737
Excitation/Emission Max	350/740 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_2895986

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

Product Specific Information

Description: The 2E7 monoclonal antibody reacts with mouse CD103, the alphaE 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 lymph node cells. 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.

Brilliant Ultra Violet™ 737 (BUV737) is a tandem dye that emits at 732 nm and is intended for use on cytometers equipped with an ultraviolet (355 nm) laser. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright, Brilliant Violet™, Brilliant Ultra Violet™, or other polymer dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright Complete Staining Buffer (Product # SB-4401) or Brilliant Stain Buffer (Product # 00-4409) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer or Brilliant Stain Buffer for more information.

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

light.

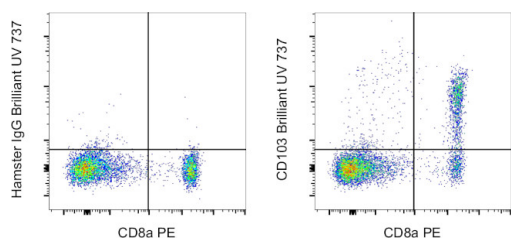
Fixation: Samples can be stored in IC Fixation Buffer (Product # 00-8222) (100 μ L of cell sample + 100 μ L of IC Fixation Buffer) or 1-step Fix/Lyse Solution (Product # 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations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

Our internal testing suggests that Brilliant Ultra Violet™ 737 (BUV737) is compatible with short-term methanol-based fixation, but should not be stored in buffers containing methanol for longer than one hour.

Excitation: 355 nm; Emission: 732 nm; Laser: Ultraviolet Laser.

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Product Images For CD103 (Integrin alpha E) Monoclonal Antibody (2E7), Brilliant Ultra Violet™ 737, eBioscience™



CD103 (Integrin alpha E) Antibody (367-1031-80) in Flow

C57BL/6 mouse lymph node cells were stained with CD8a Monoclonal Antibody, PE (Product # 12-0081-82) and 1.0 μ g of Armenian Hamster IgG Isotype Control, Brilliant Ultra Violet 737 (BUV737) (Product # 367-4888-81) (left) or 1.0 μ g of CD103 (Integrin alpha E) Monoclonal Antibody, Brilliant Ultra Violet 737 (BUV737) (right). Cells in the lymphocyte gate were used for analysis.

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