

## Product Information

Contents: Affinity Purified anti-mouse CD103 (Integrin  $\alpha_{IEL}$  chain)

Catalog Number: 14-1031

Sizes: 50 ug, 100 ug, 500 ug

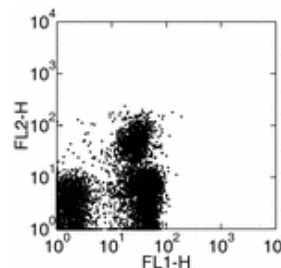
Formulation: Phosphate buffer pH 7.2, 150 mM NaCl, 0.09% NaN<sub>3</sub>

Storage Conditions: Store at 4°C.

Avoid repeated freeze/thaw cycles.

Clone: 2E7

Isotype: Armenian Hamster IgG



Surface staining of mouse lymphnodes with anti-mouse CD103 (2E7) PE and anti-mouse CD3e (145-2C11) FITC. Total viable cells were used for analysis.

### Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-1031	FITC anti-mouse CD103 (Integrin alpha-IEL chain)	488	518	FC
12-1031	PE anti-mouse CD103 (Integrin alpha-IEL chain)	488	575	FC
13-1031	Biotin anti-mouse CD103 (Integrin alpha-IEL chain)	N/A	N/A	FC
14-1031	Affinity Purified anti-mouse CD103 (Integrin alpha-IEL chain)	N/A	N/A	FA FC IH/F IP
16-1031	Functional Grade* Purified anti-mouse CD103 (Integrin alpha-IEL chain)	N/A	N/A	FA FC

\*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/μg.

Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

### Description

The 2E7 monoclonal antibody reacts with mouse CD103, the  $\alpha_E$  integrin. CD103 non-covalently associates with integrin  $\beta_7$  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.

### Usage

For research use only, not for diagnostic or therapeutic use. The 2E7 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistochemical staining of frozen tissue sections. It has also been reported in *in vitro* functional studies. (Please use Functional Grade purified 2E7, cat. 16-1031, in functional assays.)

### Applications Tested

The 2E7 antibody has been tested by flow cytometric analysis of mouse splenocyte suspensions. This can be used at less than or equal to 1 μg per million cells in a 100 μl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### Related Products

- Cat. 11-1031 FITC anti-mouse CD103 (Integrin alpha-IEL chain) (clone 2E7)
- Cat. 12-1031 PE anti-mouse CD103 (Integrin alpha-IEL chain) (clone 2E7)
- Cat. 13-1031 Biotin anti-mouse CD103 (Integrin alpha-IEL chain) (clone 2E7)
- Cat. 16-1031 Functional Grade Purified anti-mouse CD103 (Integrin alpha-IEL chain) (clone 2E7)
- Cat. 11-4111 FITC Anti-Armenian Hamster IgG
- Cat. 13-4113 Biotin Anti-Armenian Hamster IgG (clone Polyclonal)
- Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
- Cat. 12-4317 Streptavidin-PE (Phycoerythrin)

Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)  
Cat. 16-4444 Functional Grade Purified Armenian Hamster IgG Isotype Control (clone n/a)

---

#### References

---

Lefrancois, L., T. A. Barrett, et al. (1994). "Developmental expression of the alpha IEL beta 7 integrin on T cell receptor gamma delta and T cell receptor alpha beta T cells." Eur J Immunol 24(3): 635-40.

Copyright © 2000-2005 eBioscience, Inc.  
Product For Research Use Only: Not for further distribution without written consent.

