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**Product name:** Anti-Mouse CD103 Monoclonal  
Antibody(PerCP/Cyanine5.5 Conjugated)

**Catalog:** DL21026F

**Synonyms:** Integrin alpha-E, Itgae, Integrin alpha M290, CD103

**Background:** CD103 is a type I transmembrane glycoprotein known as  $\alpha$ E integrin or Integrin  $\alpha$ IEL chain. It belongs to the integrin family and is primarily found on intestinal intraepithelial lymphocytes (IEL). CD103 is also expressed on a subpopulation of lamina propria T cells, epithelial dendritic cells, lamina propria-derived dendritic cells, and a small subset of peripheral lymphocytes. T regulatory cells express high level of CD103. The CD103 expression on lymphocytes can be induced upon activation and TGF- $\beta$  stimulation. In association with integrin  $\beta$ 7,

CD103 is expressed as  $\alpha E/\beta 7$  heterodimer. Mature CD103 protein can be cleaved into 2 chains, a 150 kD (C-terminal) chain and a 25 kD (N-terminal) chain, which remain linked by disulfide bonds. CD103 binds to E-cadherin and mediates homing of lymphocytes to the intestinal epithelium.

**Form:** Liquid

**Isotype:** Rat IgG2a,  $\kappa$

**Size:** 25 $\mu$ g/50 $\mu$ g/100 $\mu$ g/200 $\mu$ g

**Host:** Rat

**Reactivity:** Mouse

**Application:** FCM

**Concentration:** 0.2 mg/mL

**Conjugation:** PerCP/Cyanine5.5

**SwissProt:** Q60677

**Buffer:** PBS with 0.05% Proclin300, 1% BSA

### Recommended Use:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use. We suggest each investigator should titrate the reagent to obtain optimal results or refer

to the dilution we used in the experiment.

#### **Data:**

C57BL/6 murine splenocytes are stained with Anti-Mouse CD103 Monoclonal Antibody(PerCP-Cy5.5 Conjugated)[Used at 0.2  $\mu\text{g}/10^6$  cells dilution]and Anti-Mouse CD3 Monoclonal Antibody(AF488 Conjugated). Splenocytes stained with Anti-Mouse CD3 Monoclonal Antibody(AF488 Conjugated) (right) are used as control.

#### **Storage:**

Keep as concentrated solution.

Store at 2~8°C and protected from prolonged exposure to light. Do not freeze.

This product is guaranteed up to one year from purchase.