

A Reliable Research Partner in Life Science and Medicine

# Elab Fluor® 488 Anti-Mouse CD103 Antibody[M290]

Catalog Number: E-AB-F1090L

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### **Description**

Reactivity Mouse Host Rat

**Isotype** Rat IgG2a, κ **Clone No.** M290

Isotype Control Elab Fluor® 488 Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09832L]

Conjugation Elab Fluor® 488

Conjugation Information Elab Fluor® 488 is designed to be excited by the Blue laser (488 nm) and detected using

an optical filter centered near 520 nm (e.g., a 525/40 nm bandpass filter).

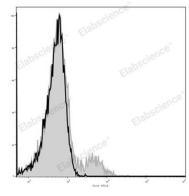
**Storage Buffer** Phosphate buffered solution, pH 7.2, containing 0.09% stabilizer.

### Applications Recommended usage

**FCM** 

Each lot of this antibody is quality control tested by flow cytometric analysis. The amount of the reagent is suggested to be used 5  $\mu$ L of antibody per test (million cells in 100  $\mu$ L staining volume or per 100  $\mu$ L of whole blood). Please check your vial before the experiment. Since applications vary, the appropriate dilutions must be determined for individual use.

#### Data



C57BL/6 murine splenocytes are stained with Elab Fluor<sup>®</sup> 488 Anti-Mouse CD103 Antibody (filled gray histogram). Unstained splenocytes (empty black histogram) are used as control.

#### **Preparation & Storage**

**Storage** Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Please protected from prolonged

Rev. V1.7

exposure to light and do not freeze.

Shipping Ice bag

#### **Antigen Information**

Alternate Names CD103;Integrin alpha M290;Integrin alpha-E;Itgae

 Uniprot ID
 Q60677

 Gene ID
 16407

## For Research Use Only

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#### **Elabscience Bionovation Inc.**



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#### **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.

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