

Purified Anti-Mouse CD103 Antibody[M290]

Catalog Number: GF1090A

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

Description

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|---------------------|---|
| Reactivity | Mouse |
| Immunogen | Recombinant Mouse CD103 protein |
| Host | Rat |
| Isotype | Rat IgG2a, κ |
| Clone | M290 |
| Purification | >98%, Protein A/G purified |
| Conjugation | Unconjugated |
| Buffer | Phosphate-buffered solution, pH 7.2, containing 0.05% non-protein stabilizer. Dialyze to completely remove the stabilizer prior to labeling. |

Applications

Recommended Dilution

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|------------|---|
| FCM | 2 µg/mL(0.5×10 ⁶ -1×10 ⁶ cells) |
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Preparation & Storage

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| Storage | Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles. |
| Shipping | Ice bag |

Background

CD103 is a type I transmembrane glycoprotein known as αE integrin or Integrin αEL 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-β stimulation. In association with integrin β7, CD103 is expressed as αE/β7 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.