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Biotin Anti-Mouse CD103 Antibody[M290]

Catalog Number: E-AB-F1090B

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

Description

Reactivity Mouse Host Rat

lsotype Rat lgG2a, κ

Clone No. M290

Isotype Control Biotin Rat IgG2a, κ Isotype Control[2A3] [Product E-AB-F09833B]

Conjugation Biotin

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. For flow

cytometric staining, the suggested use of this reagent is \leq 1.0 μ g per 10⁶ cells in 100 μ L volume or 100 μ L of whole blood. It is recommended that the reagent be titrated for

optimal performance for each application.

Preparation & Storage

Storage Keep as concentrated solution.

This product can be stored at 2-8°C for 12 months. Do not freeze.

Shipping Ice bag

Antigen Information

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

 Uniprot ID
 Q60677

 Gene ID
 16407

Background CD103 is a type I transmembrane glycoprotein known as αE integrin or Integrin αIEL

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 β 7, CD103 is expressed as α E/ β 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.