

Anti-Mouse CD103 (Integrin alpha E) APC

Catalog Number :15112-80

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: 2E7

Format/Conjugate: APC

Concentration: 0.2 mg/ml

Reactivity: Mouse

Laser: Red (635 -655nm)

Peak Emission: 660nm

Peak Excitation: 650nm

Filter: 660/20

Brightness (1=dim,5=brightest): 5

Isotype: Armenian Hamster IgG

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The 2E7 monoclonal antibody specifically reacts with mouse CD103, a type I transmembrane glycoprotein in the integrin family that bind to E-cadherin. CD103 is expressed on intraepithelial lymphocyte T cells, peripheral regulatory T cells, lamina propria T cells, and a subset of dendritic cells. It is reported to be involved in T cell homing and immune system regulation.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. For flow cytometric staining, the suggested use of this reagent is ≤0.5 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

- 1.Hadley, G. A., Bartlett, S. T., Via, C. S., Rostapshova, E. A., Moainie, S. (1997). The epithelial cell-specific integrin, CD103 (alpha E integrin), defines a novel subset of alloreactive CD8+ CTL.;The Journal of Immunology.;159(8), 3748-3756.
2. Schön, M. P., Schön, M., Parker, C. M., Williams, I. R. (2002). Dendritic Epidermal T Cells (DETC) are Diminished in Integrin α E (CD103)-Deficient Mice.;Journal of investigative dermatology.;119(1), 190-193.
3. Zikri, N. N., Schumer, E., Wang, J. J., Gaughan, A., Hadley, G. A., Moffatt-Bruce, S. D. (2010). Induction of CD4⁺ CD25⁺ T Regulatory Cells with CD103 Depletion.;Journal of Surgical Research.;163(1), 162-168.