

## Anti-Mouse CD103 (Integrin alpha E) SAFIRE Purified

Catalog Number :15112-25

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

### Product Information

**Clone:** 2E7

**Format/Conjugate:** SAFIRE Purified

**Concentration:** 1 mg/mL

**Reactivity:** Mouse

**Laser:** Not Applicable

**Peak Emission:** Not Applicable

**Peak Excitation:** Not Applicable

**Filter:** Not Applicable

**Brightness (1=dim,5=brightest):** Not Applicable

**Isotype:** Armenian Hamster IgG

**Formulation:** Phosphate-buffered aqueous solution, pH7.2.

**Storage:** Product should be kept at 2-8°C.

**Applications:** FC, FA

### 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. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography.

### Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. 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  $\alpha$ 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<sup>+</sup> CD25<sup>+</sup> T Regulatory Cells with CD103 Depletion.;Journal of Surgical Research,;163(1), 162-168.