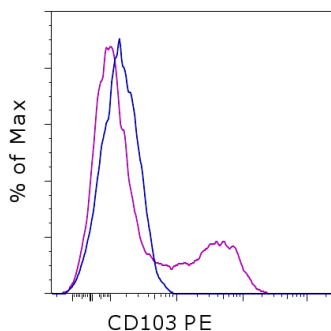


## Anti-Human CD103 (Integrin alpha E) PE

**Catalog Number:** 12-1038

**Also known as:** Integrin  $\alpha$ E, ITGAE

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



Staining of PHA-stimulated human peripheral blood cells with Mouse IgG1 kappa Isotype Control PE (cat. 12-4714) (blue histogram) or Anti-Human CD103 (Integrin alpha E) PE (purple histogram). Total viable cells were used for analysis.

### Product Information

**Contents:** Anti-Human CD103 (Integrin alpha E) PE



**Catalog Number:** 12-1038

**Clone:** B-Ly7

**Concentration:** 5  $\mu$ L (0.25  $\mu$ g)/test

**Host/Isotype:** Mouse IgG1, kappa

**HLDA Workshop:** IV B58 and V-A129



**Formulation:** aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

**Temperature Limitation:** Store at 2-8°C. Do not freeze. Light sensitive material.



**Batch Code:** Refer to vial



**Use By:** Refer to vial

### Description

The B-Ly7 monoclonal antibody reacts with human CD103, the  $\alpha$ <sub>E</sub> integrin. CD103 non-covalently associates with integrin  $\beta$ <sub>7</sub>. CD103 is expressed mainly on intraepithelial lymphocytes and a small subset of peripheral lymphocytes. CD103 is also expressed by hairy cell leukemia (HCL) and by some chronic B cell lymphocytic leukemias. *In vitro* stimulation of human T cells with mitogens induces upregulation of CD103. Epithelial cell antigen, E-cadherin, binds to CD103 and mediates homing of lymphocytes to the intestinal epithelium.

### Applications Reported

B-Ly7 has been reported for use in flow cytometric analysis.

### Applications Tested

This B-Ly7 antibody has been pre-titrated and tested by flow cytometric analysis of 2-3 day PHA-activated human peripheral blood leukocytes. This can be used at 5  $\mu$ L (0.25  $\mu$ g) per test. A test is defined as the amount ( $\mu$ g) of antibody that will stain a cell sample in a final volume of 100  $\mu$ L. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test.

### References

de Harven E, Soligo D, Christensen H. 1995. Immunogold labeling for the diagnosis of leukemia by transmission and scanning electron microscopy. *Scanning Microsc.* 9:1191-1199

de Harven E, Christensen H, Poppema S, Scott JG. 1994. Immunogold labelling of leukemic hairy cells with the B-ly7 monoclonal antibody: an SEM and TEM study. *Microsc Res Tech.* 28:356-67

Visser L, Dabbagh L, Poppema S. 1992. Reactivity of monoclonal antibody B-ly7 with a subset of activated T cells and T-cell lymphomas. *Hematol Pathol.* 6:37-42

Thaler J, Dietze O, Faber V, Greil R, Gastl G, Denz H, Ho AD, Huber H. 1990. Monoclonal antibody B-ly7: a sensitive marker for detection of minimal residual disease in hairy cell leukemia. *Leukemia.* 4:170-6

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Schwartz R, Dienemann D, Kruschwitz M, Fritsche G, Stein H. 1990. Specificities of monoclonal antibodies B-ly7 and HML-1 are identical. Blood. 75:320-1.

### **Related Products**

12-4714 Mouse IgG1 K Isotype Control PE (P3.6.2.8.1)