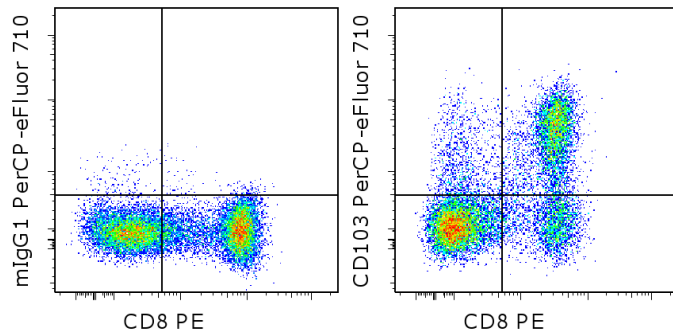


Anti-Human CD103 (Integrin alpha E) PerCP-eFluor[®] 710

Catalog Number: 46-1037

Also known as: Integrin alpha-E, ITGAE

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



Staining of normal human peripheral blood cells stimulated with PHA for 3 days with Anti-Human CD8a PE (cat. 12-0086) and Mouse IgG1 K Isotype Control PerCP-eFluor[®] 710 (cat. 46-4714) (left) or Anti-Human CD103 (Integrin alpha E) PerCP-eFluor[®] 710 (right). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human CD103 (Integrin alpha E) PerCP-eFluor[®] 710

REF **Catalog Number:** 46-1037

Clone: Ber-ACT8

Concentration: 5 uL (0.06 ug)/test

Host/Isotype: Mouse IgG1, kappa

HLDA Workshop: V

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

Contains sodium azide



Description

The Ber-ACT8 monoclonal antibody reacts with human CD103, the alpha E integrin. CD103 non-covalently associates with integrin beta7. 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. Cross-blocking studies suggest that B-Ly7 and Ber-ACT8 see different epitopes.

Applications Reported

This Ber-ACT8 antibody has been reported for use in flow cytometric analysis.

Applications Tested

This Ber-ACT8 antibody has been pre-titrated and tested by flow cytometric analysis of stimulated normal human peripheral blood cells. This can be used at 5 uL (0.06 ug) per test. A test is defined as the amount (ug) of antibody that will stain a cell sample in a final volume of 100 uL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

PerCP-eFluor[®] 710 can be used in place of PE-Cy5, PE-Cy5.5 or PerCP-Cy5.5. PerCP-eFluor[®] 710 emits at 710 nm and is excited with the blue laser (488 nm). Please make sure that your instrument is capable of detecting this fluorochrome. For a filter configuration, we recommend using the 685 LP dichroic mirror and 710/40 band pass filter, however the 695/40 band pass filter is an acceptable alternative.

Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 uL cell sample + 100 uL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

References

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Cepek KL, Wong DA, Brenner MB, Springer TA. 1995. CD103 cluster reort. Leucocyte Typing V. 1995.

Kruschwitz M, Fritzsche G, Schwarting R, Micklem K, Mason DY, Falini B, Stein H. 1995. Ber-ACT8: new monoclonal antibody to the mucosa lymphocyte antigen. J Clin Pathol 1991; 44(8):636-45. (Ber-ACT8, PubMed)

Related Products

00-4222 Flow Cytometry Staining Buffer

12-0086 Anti-Human CD8a PE (OKT8 (OKT-8))

46-4714 Mouse IgG1 K Isotype Control PerCP-eFluor® 710 (P3.6.2.8.1)

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