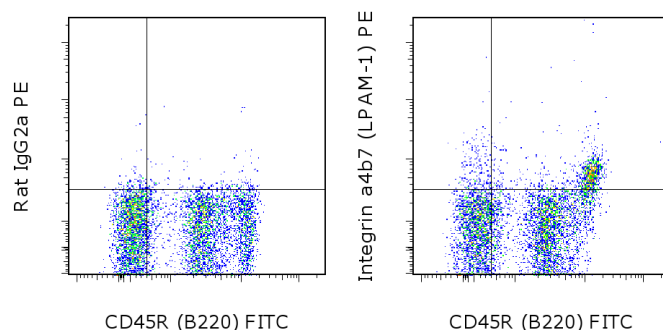


Anti-Mouse Integrin alpha 4 beta 7 (LPAM-1) PE

Catalog Number: 12-5887

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



Staining of C57Bl/6 bone marrow cells with Anti-Human/Mouse CD45R (B220) FITC (cat. 11-0452) and 0.5 ug of Rat IgG2a K Isotype Control PE (cat. 12-4321) (left) or 0.5 ug of Anti-Mouse Integrin alpha 4 beta 7 (LPAM-1) PE (right). Cells in the small scatter population were used for analysis.

Product Information

Contents: Anti-Mouse Integrin alpha 4 beta 7

(LPAM-1) PE



Catalog Number: 12-5887

Clone: DATK32 (DATK-32)

Concentration: 0.2 mg/mL

Host/Isotype: Rat IgG2a, kappa



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 DATK32 monoclonal antibody binds to a combinatorial epitope of mouse LPAM-1 (alpha 4/ beta 7), which is a heterodimer of the the 154 kDa alpha 4 subunit and the 130 kDa beta 7 subunit. In mouse, the beta 7 subunit is found on the majority of mature lymphocytes and a small population of thymocytes and bone marrow cells. LPAM-1 is an integrin involved in the transendothelial migration of lymphocytes across high endothelial venules (HEV), and is known to bind several ligands including MAdCAM-1, VCAM-1 and fibronectin. Binding of the DATK32 monoclonal antibody has been shown to induce aggregation of the CD8+ T cell lymphoma TK1, and block LPAM-1-mediated cell adhesion.

Applications Reported

This DATK32 (DATK-32) antibody has been reported for use in flow cytometric analysis.

Applications Tested

This DATK32 (DATK-32) antibody has been tested by flow cytometric analysis of mouse bone marrow cells. This can be used at less than or equal to 1 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Hamann A, Andrew DP, Jablonski-Westrich D, Holzmann B, Butcher EC. Role of alpha 4-integrins in lymphocyte homing to mucosal tissues in vivo. J Immunol. 1994 Apr 1;152(7):3282-93. (DATK32, FC, FA, PubMed)

Andrew DP, Berlin C, Honda S, Yoshino T, Hamann A, Holzmann B, Kilshaw PJ, Butcher EC. Distinct but overlapping epitopes are involved in alpha 4 beta 7-mediated adhesion to vascular cell adhesion molecule-1, mucosal addressin-1, fibronectin, and lymphocyte aggregation. J Immunol. 1994 Nov 1;153(9):3847-61. (DATK32, FC, FA, PubMed)

Berlin C, Berg EL, Briskin MJ, Andrew DP, Kilshaw PJ, Holzmann B, Weissman IL, Hamann A, Butcher EC. Alpha 4 beta 7 integrin mediates lymphocyte binding to the mucosal vascular addressin MAdCAM-1. Cell. 1993 Jul

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16;74(1):185-95. (DATK32, FC, FA, PubMed)

Related Products

11-0452 Anti-Human/Mouse CD45R (B220) FITC (RA3-6B2)

12-4321 Rat IgG2a K Isotype Control PE (eBR2a)