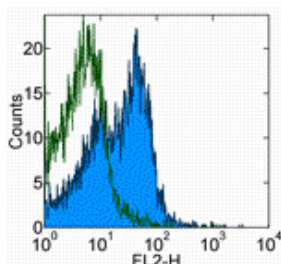


Anti-Mouse Integrin alpha 4 beta 7 (LPAM-1) Purified

Catalog Number: 14-5887

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



Staining of C57BL/6 splenocytes with 0.5 μ g of Rat IgG2a kappa Isotype Control Purified (cat. 14-4321) (open histogram) or 0.5 μ g of Anti-Mouse Integrin alpha 4 beta 7 Purified (filled histogram) followed by Anti-Rat IgG Biotin (cat. 13-4813) and Streptavidin PE (cat. 12-4317). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Mouse Integrin alpha 4 beta 7 (LPAM-1) Purified

REF **Catalog Number:** 14-5887

Clone: DATK32 (DATK-32)

Concentration: 0.5 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.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains 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 α_4 subunit and the 130 kDa β_7 subunit. In mouse, the β_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. (Please use Functional Grade purified DATK32 (DATK-32), cat. 16-5887, in functional assays.)

Applications Tested

This DATK32 (DATK-32) antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

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 16;74(1):185-95. (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)

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)

Related Products

11-4317 Streptavidin FITC

11-4811 Anti-Rat IgG FITC

12-4317 Streptavidin PE

13-4813 Anti-Rat IgG Biotin (Polyclonal)

14-4321 Rat IgG2a K Isotype Control Purified (eBR2a)

17-4317 Streptavidin APC

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