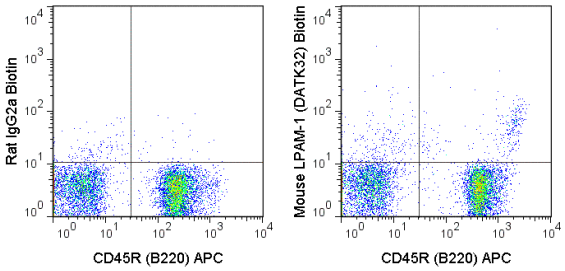
TECHNICAL DATA SHEET

Biotin Anti-Mouse LPAM-1 (DATK32)

Catalog Number: 30-5887

PRODUCT INFORMATION

Contents:	Biotin Anti-Mouse LPAM-1 (DATK32)
Isotype:	Rat IgG2a, kappa
Concentration:	0.5 mg/mL
Clone:	DATK32
Reactivity:	Mouse
Use By:	12 months from date of receipt
Storage Conditions:	2-8°C protected from light
Formulation:	10 mM NaH_2PO_4, 150 mM NaCl, 0.09% NaN_3, pH7.2



C57Bl/6 bone marrow cells were stained with APC Anti-Mouse CD45R (B220) (20 -0452) and 0.25 ug biotin Anti-Mouse LPAM-1 (30-5887) (right panel) or 0.25 ug biotin Rat IgG2a isotype control (left panel) followed by Streptavidin PE.

DESCRIPTION

The DATK32 antibody is specific for a combinatorial epitope of the mouse integrin alpha 4/beta 7 (LPAM-1) heterodimer. LPAM-1 is expressed on most mature lymphocytes and sub-populations of thymocytes and bone marrow cells. It is involved in lymphocyte adhesion and migration and is a receptor for several extracellular matrix proteins including VCAM-1, fibronectin, and MAdCAM-1.DATK32 is reported to induce LPAM-1 dependent lymphocyte aggregation and block adhesion to VCAM-1, fibronectin, and MAdCAM-1.

PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

APPLICATION NOTES

This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). Please refer to the figure legend for the optimal concentration used to stain the tissue shown. We recommend titrating the antibody under your specific conditions to determine the optimal concentration of antibody needed in your experimental system.

REFERENCES

Andrew DP, Berlin C, Honda S, et al. 1994. J Immunol. 153(9):3847-3861.Berlin C, Berg EL, Briskin MJ, et al. 1993. Cell. 74(1):185-195.Bogetto L, Gabriele E, Cariati R, et al. 2000. Blood. 95:2397-2406.