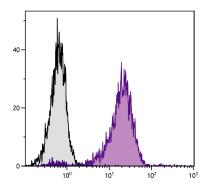




Rat Anti-Mouse LPAM-1

Cat. No.	Format	Size
1870-01	Purified (UNLB)	0.5 mg
1870-08	Biotin (BIOT)	0.5 mg
1870-09	R-phycoerythrin (PE)	0.1 mg
1870-09L	R-phycoerythrin (PE)	0.2 mg
1870-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg



AKR/Cum mouse T lymphocyte cell line TK-1 was stained with Rat Anti-Mouse LPAM-1-BIOT (SB Cat. No. 1870-08) followed by Streptavidin-PE (SB Cat. No. 7100-09).

Overview

Clone DATK32

Isotype Rat (Fischer) IgG_{2aK}

Immunogen AKR/Cum mouse T lymphoma cell line TK-1

Specificity Mouse LPAM-1

Alternate Name(s) Integrin $\alpha_4\beta_7$, lymphocyte Peyer's patch adhesion molecule

Description

The lymphocyte Peyer's patch adhesion molecule (LPAM-1), also known as integrin $\alpha 4\beta 7$, is a member of the integrin family of cell surface receptors. It is expressed primarily on mucosal lymphocytes but is also present on NK cells and eosinophils. The $\alpha 4\beta 7$ heterodimer mediates the binding of lymphocytes to its ligand, mucosal vascular addressin (MAdCAM-1) on the high endothelial venules, thereby directing the homing of lymphocytes into Peyer's patches and intestinal lamina propria. The monoclonal antibody DATK32 recognizes a conformational epitope on the heterodimer.

Applications

FC – Quality tested ^{1,3-5} IHC-FS – Reported in literature ⁴ Block – Reported in literature ¹⁻³ IP – Reported in literature ⁴

Working Dilutions

For flow cytometry, the suggested use of these reagents is in a final volume of 100 µL

Other Applications Since applications vary, you should determine the optimum working dilution for the product that is

appropriate for your specific need.

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Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN₃. Store at 2-8°C.
- The R-phycoerythrin (PE) conjugate is supplied as 0.1 mg in 1.0 mL or 0.2 mg in 2.0 mL of PBS/NaN₃ and a stabilizing agent. Store at 2-8°C. **Do not freeze!**
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Contains no
 preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple
 freeze / thaw cycles.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific SDS.

References

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- Katayama Y, Hidalgo A, Peired A, Frenette PS. Integrin α₄β₇ and its counterreceptor MAdCAM-1 contribute to hematopoietic progenitor recruitment into bone marrow following transplantation. Blood. 2004;104:2020-26. (Block, FC)
- Bogetto L, Gabriele E, Cariati R, Dolcetti R, Spressotto P, Doglioni C, et al. Bidirectional induction of the cognate receptor-ligand α4-VCAM-1 pair defines a novel mechanism of tumor intravasation. Blood. 2000;95:2397-406. (FC, IP, IHC-FS)
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