

# Integrin alpha 4 beta 7 (LPAM-1) Monoclonal Antibody (DATK32 (DATK-32)), APC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	DATK32 (DATK-32)
Conjugate	APC
Excitation/Emission Max	651/660 nm
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_1210577

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	10 Publications

## Product Specific Information

**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 know 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.

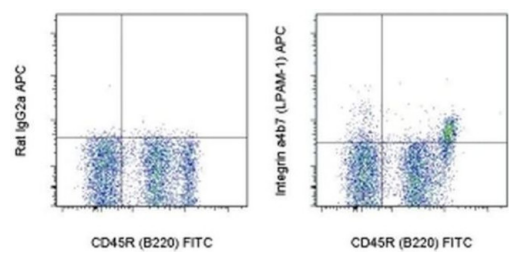
**Applications Reported:** This DATK32 (DATK-32) antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This DATK32 (DATK-32) antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Excitation:** 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

Product Images For Integrin alpha 4 beta 7 (LPAM-1) Monoclonal Antibody (DATK32 (DATK-32)), APC, eBioscience™



**Integrin alpha 4 beta 7 (LPAM-1) Antibody (17-5887-82) in Flow**  
Staining of C57Bl/6 bone marrow cells with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.125 µg of Rat IgG2a K Isotype Control APC (Product # 17-4321-81) (left) or 0.125 µg of Anti-Mouse Integrin alpha 4 beta 7 (LPAM-1) APC (right). Total viable cells were used for analysis.

10 References

Flow Cytometry (10)

Immunity	Year 2022
<b>Epithelial colonization by gut dendritic cells promotes their functional diversification.</b>	Species Mouse
"17-5887-82 was used in Flow cytometry/Cell sorting to investigate How tissue-specific cues orchestrate Dendritic cells diversification."	
Authors: Rivera CA,Randrian V,Richer W,Gerber-Ferder Y,Delgado MG,Chikina AS,Frede A,Sorini C,Maurin M,Kammoun-Chaari H,Parigi SM,Goudot C,Cabeza-Cabrerizo M,Baulande S,Lameiras S,Guermonprez P,Reis e Sousa C,Lecuit M,Moreau HD,Helft J,Vignjevic DM,Villablanca EJ,Lennon-Dum��nil AM	
Immunity	Year 2019
<b>An Id2<sup>RFP</sup>-Reporter Mouse Redefines Innate Lymphoid Cell Precursor Potentials.</b>	Species Mouse
"17-5887-82 was used in Flow Cytometry to suggest a revised model for ILC differentiation that redefines the cell-fate potential of helper-ILC-restricted Zbtb16+ ILCPs."	
Authors: Xu W,Cherrier DE,Chea S,Vosshenrich C,Serafini N,Petit M,Liu P,Golub R,Di Santo JP	

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