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Diagnostik & molekulare Diagnostik



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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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- Expressversand

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CEDARLANE[®]
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Conveniently Delivering You Today's Innovations
for the Science of Tomorrow™

**Anti-Mouse CD49d
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL8919A	Ascites	0.5ml	NA	CLCR2B00
CL8919AP	Purified	250µg	1.0 mg/ml	CLCR2B00
CL8919B/-3	Biotin	100µg/300µg	0.1 mg/ml	CLCR2B15
CL8919F/-3	FITC	100µg/300µg	0.1 mg/ml	CLCR2B01
CL8919PE/-3	PE	50µg/300µg	0.1 mg/ml	CLCR2B04

Isotype: Rat IgG_{2b}

DESCRIPTION:

Cedarlane's anti-mouse CD49d monoclonal antibody reacts with $\alpha 4$ integrin, which helps to mediate cell-cell and cell-matrix interactions. $\alpha 4$ integrin combines with $\beta 1$ and $\beta 7$ integrin to form VLA-4 and LPAM-1 (Peyers patch homing receptor) respectively. VLA-4 is expressed on most peripheral lymphocytes, thymocytes and monocytes. LPAM-1 is found on peripheral lymphocytes, but few thymocytes. Fibronectin and VCAM-1 act as ligands for both VLA-4 and LPAM-1. LPAM-1 also binds the mucosal vascular addressin MAdCAM-1. (1)

Applications of this clone include flow cytometry, immunoprecipitation and immunohistochemistry. (1, 2, 3)

PRESENTATION:

Ascites: Lyophilized

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.

Biotin, FITC and PE: Biotin/FITC/PE conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

Store **Ascites** at -20°C. For all other formats, store at 4°C. DO NOT FREEZ **PE** conjugates. For long term storage (**Purified, Biotin, and FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

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SPECIFICATIONS:

Clone: R1-2

Hybridoma Production:

Immunization: Immunogen: Peyers Patch HEV binding lymphoma line (TK1)
Donor: Fischer Spleen
Fusion Partner: P3x63Ag8.653

Specificity: Mouse CD49d ($\alpha 4$ integrin)

TEST RESULTS:

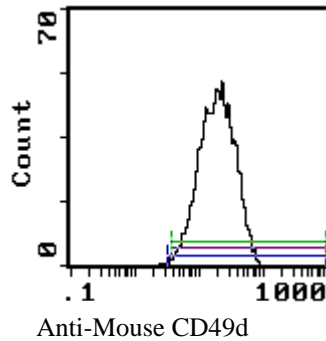
Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: BALB/c

Cell Concentration: 1×10^6 cells per tests

Antibody Concentration Used: $0.5 \mu\text{g}/10^6$ cells

<u>Cell Source</u>	<u>Percentage of cells stained above control:</u>
TK1 cell line	99.8%
Thymus	88.6%
Spleen	91.1%
Bone Marrow	82.5%



Cell Source: TK1 cell line

N.B. Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

- 1) Berlin, C., E. L. Berg, M. J. Briskin, D. P. Andrew, P. J. Kilshaw, B. Holzmann, I. L. Weissman, A. Hamann, E.C. Butcher 1993. $\alpha 4\beta 7$ integrin mediates lymphocyte binding to the mucosal vascular addressin MAdCam-1. Cell 704:185-195.
- 2) Holzmann, B., I. L. Weissman 1989. Peyer's patch-specific lymphocyte homing receptors consist of a VLA-4 like α chain associated with either of two integrin β chains, one of which is novel. EMBO 8:1736-1741.
- 3) Holzmann, B., B. W. McIntyre, I. W. Weissman 1989. Identification of a murine Peyer's patch-specific lymphocyte homing receptor as an integrin molecule with an α chain homologous to human VLA-4 α . Cell 56:37-46.

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