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Technically
Speaking

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

**Anti-Mouse CD45RB
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL8947AP	Purified	250 µg	1.0 mg/ml	CLCR2A00
CL8947NA	No Azide	1 mg	1.0 mg/ml	CLCR2A00
CL8947B	Biotin	100 µg	0.1mg/ml	CLCR2A15
CL8947B-3	Biotin	300 µg	0.1 mg/ml	CLCR2A15
CL8947F	FITC	100 µg	0.1 mg/ml	CLCR2A01
CL8947F-3	FITC	300 µg	0.1 mg/ml	CLCR2A01
CL8947PE	PE	50 µg	0.1mg/ml	CLCR2A04
CL8947PE-3	PE	300 µg	0.1mg/ml	CLCR2A04
CL8947APC	APC	100 µg	0.1mg/ml	CLCR2A05
CL8947AF4	Alexa Fluor [®] 488	100 µg	0.1 mg/ml	N/A

Alexa Fluor[®] is a registered trademark of Life Technologies Corporation.

Isotype: Rat IgG2a

DESCRIPTION:

Cedarlane's anti-mouse CD45RB monoclonal antibody reacts with the CD45 isoform containing the exon B dependent epitope. CD45RB is highly expressed on peripheral B cells, cytotoxic T cells, a subset of T helper cells and most thymocytes.

Applications: flow cytometry, immunohistochemistry on acetone-fixed frozen sections and paraffin embedded sections, immunoprecipitation.

PRESENTATION:

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.

No Azide: Purified IgG buffered in PBS, no preservative, 0.2 µm sterile filtered.

Biotin, FITC, PE, APC and AF488: Biotin/FITC/PE/APC/AF488 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:

For all formats, store at 4°C. DO NOT FREEZE **PE, APC and AF488** conjugates. For long term storage (**Purified, Biotin, FITC, No Azide**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

Visit our website for your local distributor.

CEDARLANE[®] 

www.cedarlanelabs.com

An ISO 9001:2000 and ISO 13485:2003
registered company.

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SPECIFICATIONS:

Clone: 16A

Hybridoma Production:

Immunization: Immunogen: T_H2 cell clones, final boost with T_H2 clone D10

Fusion Partner: Ag8.653

Specificity: Mouse CD45RB

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: BALB/c

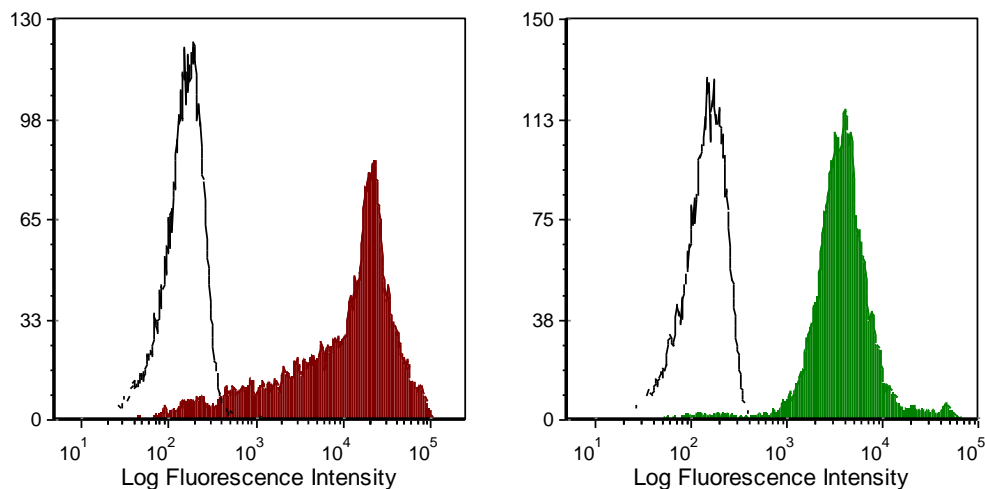
Cell Concentration: 1x10⁶ cells per test

Antibody Dilution Used: 0.5 µg/10⁶ cells

Cell Source

Percentage of cells stained above control:

Spleen	76.6%
Thymus	96.8%
Lymph Node	66.5%
Bone Marrow	29.2%



Balb/c mouse splenocytes (left) and thymocytes (right) were stained with anti-CD45RB (clone: 16A) (filled histogram) or rat IgG2a isotype control (open histogram).

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

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

REFERENCES:

1. Bottomly, K., M. Lugman, L. Greenbaum, S. Carding, I. West, T. Pasqualini, and D.B. Murphy. A monoclonal antibody to murine CD45R distinguishes CD4 T cell populations that produce different cytokines. *Eur. J. Immunol.* 1989. 19:617-623.
2. Hathcock, K.S., H. Hirano, R.J. Hodes. CD45 expression by murine B cells and T cells: Alteration of CD45 isoforms in subpopulations of activated B cells. *Immunol. Res.* 1993. 12:21-36.

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