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Technically
Speaking

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

**Anti-Mouse CD8a (Ly 2)
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL169A	Ascites	0.5ml	NA	CLCR2B00
CL169AP	Purified	250µg	1.0 mg/ml	CLCR2B00
CL169LE	Purified	500ug	1.0mg/ml	CLCR2B00
CL169NA	Purified	1.0ml	1.0 mg/ml	CLCR2B00
CL169B/-3	Biotin	100µg/300µg	0.1 mg/ml	CLCR2B15
CL169F/-3	FITC	100µg/300µg	0.1 mg/ml	CLCR2B01
CL169APC	APC	100µg	0.1 mg/ml	CLCR2B05
CL169PE/-3/-100	PE	50µg/300µg/100 µg	0.1 mg/ml	CLCR2B04
CL169AF4	Alexa Fluor [®] 488	100 µg	0.1 mg/ml	N/A
CL169AF6	Alexa Fluor [®] 647	100 µg	0.1 mg/ml	N/A
CL169AF7	Alexa Fluor [®] 700	100 µg	0.1 mg/ml	N/A

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

Isotype: Rat IgG_{2b}

DESCRIPTION:

Cedarlane's anti-CD8a (Ly 2) monoclonal antibody reacts with a protein of approximately 30 kDa found on mouse thymocytes and mouse cytotoxic/suppressor T cells. It does not bind to mouse helper/inducer T cells. It binds to T lymphocytes from all mouse strains regardless of phenotypic expression (i.e. reacts with T lymphocytes from mouse strains expressing the Ly 2.1 or Ly 2.2 phenotype). It can be used to investigate the role of T cells in models for infectious disease, autoimmunity, transplantation tolerance and fundamental aspects of immunology¹. It can also be useful to identify/eliminate cytotoxic or suppressor T lymphocytes in vivo or in vitro.

This antibody has been reported to be suitable for use in immunohistochemistry on PFA-fixed paraffin-embedded tissue sections (antigen retrieval is required).⁷ This clone has been reported to work in immunohistochemistry⁶ (frozen sections).

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.

LE: Purified Ig buffered in PBS, no preservative, 0.2µm sterile filtered. (Purified from cell culture supernatant via Protein G Chromatography)

APC, Biotin, FITC, PE, AF488, AF647 and AF700: Biotin/FITC/PE/AF488/AF647/AF700 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.

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

Visit our website for your local distributor.

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STORAGE/STABILITY:

Store **Ascites** at -20°C. For all other formats, store at 4°C. **DO NOT FREEZE APC, PE, AF488, AF647 and AF700 conjugates.** For long term storage (**Purified, LE, Biotin, FITC and No Azide**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

SPECIFICATIONS:

Clone: YTS 169.4

Hybridoma Production:

Immunization: Immunogen: Mouse Ly-2 thymocytes
Donor: (Lou x DA) F1 rat
Fusion Partner: myeloma Y3/Ag1.2.3

Specificity: Mouse CD8a (Ly 2)

Strains Tested: C57BL/6, BALB/c, AKR/J, C3H/He

Positive: C57BL/6, BALB/c, AKR/J, C3H/He

Negative: None

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: BALB/c

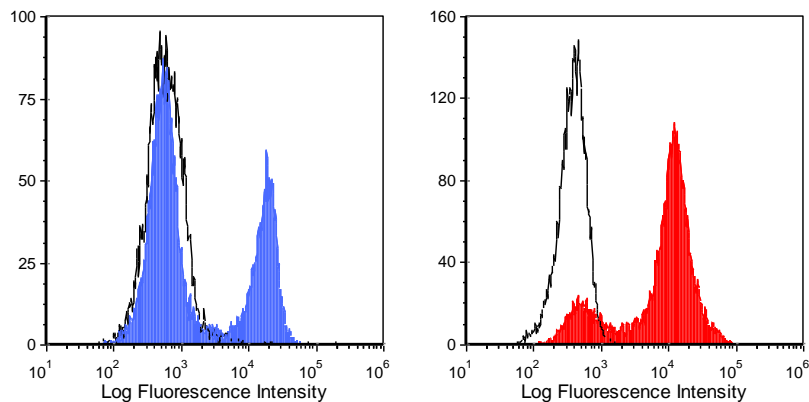
Cell Concentration: 1x10⁶ cells per tests

Antibody Concentration Used: 1.0 µg/10⁶ cells

Cell Source

Percentage of cells stained above control:

Thymus	87.1%
Splenic T Cells*	29.75%



Balb/c mouse splenic T-cells (left) or thymocytes (right) were stained with anti-CD8a (clone: YTS 169.4) (filled histogram) or rat IgG2b isotype control (open histogram).

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.**

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