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Technically
Speaking

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

**Anti-Mouse Erythroid
Cell (Ly-76) Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL8926AP	Purified	250ug	1.0 mg/ml	CLCR2B00
CL8926LE	Purified	500ug	1.0 mg/ml	CLCR2B00
CL8926NA	Purified	1.0ml	1.0 mg/ml	CLCR2B00
CL8926B/-3	Biotin	100ug/300ug	0.1 mg/ml	CLCR2B15
CL8926F/-3	FITC	100ug/300ug	0.1 mg/ml	CLCR2B01
CL8926PE/-3	PE	100ug/300ug	0.1 mg/ml	CLCR2B04
CL8926AF4	Alexa Fluor [®] 488	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 purified anti-mouse erythroid cell (Ly-76) mAb is selectively reactive with both fetal and adult erythroid cells. This monoclonal antibody (clone: TER119) is specific for cells at stages from early proerythroblast to mature erythrocytes.

TER119 is reported to react with 20-25% of bone marrow cells and 2-3% of spleen cells but not with thymocytes or lymph node cells. In fetal haematopoietic tissues, 30-40% of day 10 yolk sac cells, 80-90% of day 14 fetal liver cells and 40-50% of newborn liver cells were reactive with CL8926AP. TER119⁺ cells in adult bone marrow expressed significant levels of CD45 but not myeloid (Mac-1, Gr-1) or B cell (B220) markers.

This mAb immunoprecipitated protein bands with molecular weights of 110 kDa, 60 kDa, 52 kDa and 32 kDa from erythrocyte membrane whereas only a 52 kDa band was detected by TER119 in Western Blot analysis. It has been determined that the TER119 antigen is a molecule associated with cell-surface glycoporphin A but not with glycoporphin A itself. Also the antigen is only expressed on normal erythroid cells but not on erythroleukaemia cells.

This product is suitable for use in flow cytometry. It has also been reported to work in Western Blot, immunoprecipitation and immunohistochemistry (frozen and paraffin).

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.

LE: No preservative added. 0.2µm sterile filtered.

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

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

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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STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE PE 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.

SPECIFICATIONS:

Clone: TER-119

Hybridoma Production:

Immunization: Immunogen: Day 14 BALB/c fetal liver cells

Donor: Wistar rat spleen

Fusion Partner: X63.Ag8.653 myeloma cells

Specificity: Mouse Erythroid Cells (Ly-76)

TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Mouse Strain: ATH

Cell Concentration: 1 x 10⁶ cells per test

Antibody Concentration Used: 0.5 µg/10⁶ cells

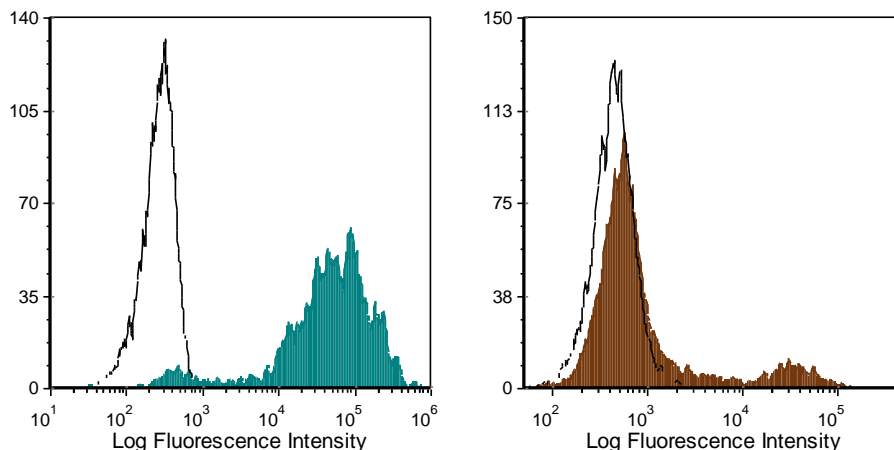
Cell Source

Percentage of cells stained above control:

Whole Blood 86.5%

Whole Bone Marrow 17.4%

* Blood was collected 1:1 in Alsever's and 0.1M Disodium EDTA was added 1:1 and incubated 10 minutes at room temperature followed by 3 washes with PBS



Balb/c whole blood (left) or bone marrow (right) were stained with anti-Ly 76 (clone: TER119) (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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