

Product datasheet for **AM31858RP-L**

Ly-76 / TER-119 Rat Monoclonal Antibody [Clone ID: TER-119]

Product data:

Product Type: Primary Antibodies

Clone Name: TER-119

Applications: FC

Recommended Dilution: **Flow Cytometry** (See Protocols).

This Antibody has been reported to work in **Western Blot, Immunoprecipitation** and **Immunohistochemistry on Frozen and Paraffin Sections**.

Reactivity: Mouse

Host: Rat

Isotype: IgG2b

Clonality: Monoclonal

Immunogen: Day 14 BALB/c fetal liver cells from Wistar Rat spleen.

Specificity: Mouse Erythroid Cells (Ly-76).

This anti-Mouse Erythroid cell (Ly-76) Monoclonal Antibody 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 AM31858RP. TER119+ cells in adult bone marrow expressed significant levels of CD45 but not myeloid (Mac-1, Gr-1) or B cell (B220) markers.

This Monoclonal Antibody 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.



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Formulation:	PBS containing 0.02% Sodium Azide as preservative and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml. Label: PE State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Protein G Affinity Chromatography.
Conjugation:	PE
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Synonyms:	Lymphocyte antigen 76, TER119

Note:**Test Results:****Tissue Distribution by Flow Cytometry Analysis:**

Mouse Strain: BALB/c

Cell Concentration: 1 x 10⁶ cells per test

Antibody Concentration Used: 0.05 µg/10⁶ cells

Secondary Antibody Used: PE Rat IgG2b

Cell Source (Percentage of cells stained above control):

Whole Bone Marrow (46.9%)

Whole Blood (98.0%)

*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

Protocol: Flow Cytometry Analysis:**Method:**

1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with

Lympholyte®-M cell separation medium.

2. Wash 2 times.

3. Resuspend the cells to a concentration of 2x10⁷ cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1x10⁶ cells, representing 1 test).

4. To each tube, add 0.1-0.05 µg* of AM31858RP-N or AM31858RP-L per 10⁶ cells.

5. Vortex the tubes to ensure thorough mixing of antibody and cells.

6. Incubate the tubes for 30 minutes at 4°C.

(It is recommended that the tubes are protected from light, since most fluorochromes are light sensitive.)

7. Wash 2 times at 4°C.

8. Resuspend the cell pellet in 50 µl ice cold media B.

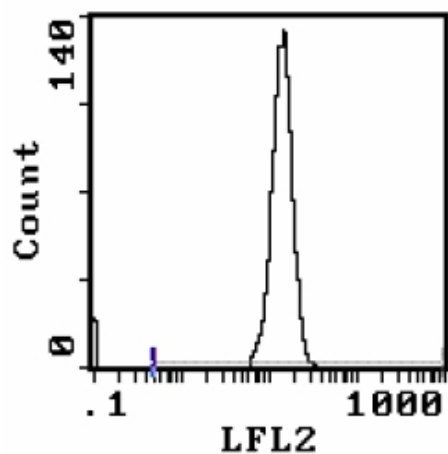
9. Transfer to suitable tubes for Flow Cytometric analysis containing 15 µl of propidium iodide at 0.5 mg/ml in PBS. This stains dead cells by intercalating in DNA.

Media:

A. Phosphate buffered saline (pH 7.2) + 5% normal serum of host species + sodium azide (100 µl of 2M sodium azide in 100 mls).

B. Phosphate buffered saline (pH 7.2) + 0.5% Bovine serum albumin + sodium azide (100 µl of 2M sodium azide in 100 mls).

Product images:



Cell Source: Whole Blood. Percentage of cells stained above control: 98.0%.