

## Product datasheet for **AM31858FC-N**

### 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 AM31858FC. 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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<b>Formulation:</b>	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: FITC State: Liquid purified Ig fraction
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Protein G Affinity Chromatography.
<b>Conjugation:</b>	FITC
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
<b>Stability:</b>	Shelf life: one year from despatch.
<b>Synonyms:</b>	Lymphocyte antigen 76, TER119

**Note:**

**Test Results:**

Tissue Distribution by Flow Cytometry Analysis:  
Mouse Strain: BALB/c  
Cell Concentration: 1 x 10<sup>6</sup> cells per test  
Antibody Concentration Used: 0.1 µg/10<sup>6</sup> cells  
Secondary Antibody Used: FITC Rat IgG2b

Cell Source (Percentage of cells stained above control):  
Whole Bone Marrow (34.8%)  
Whole Blood (100%)  
\*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:**

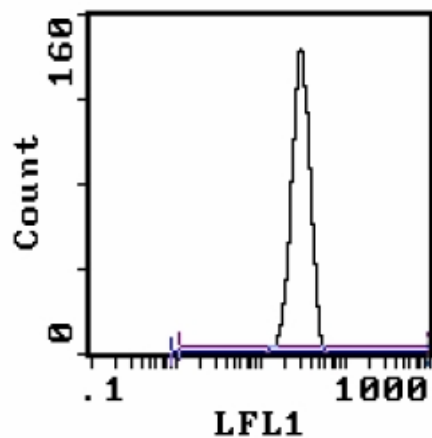
1. Prepare a cell suspension in media A. For cell preparations, deplete the red blood cell population with Lympholyte®-M cell separation medium.
2. Wash 2 times.
3. Resuspend the cells to a concentration of 2x10<sup>7</sup> cells/ml in media A. Add 50 µl of this suspension to each tube (each tube will then contain 1x10<sup>6</sup> cells, representing 1 test).
4. To each tube, add 0.1-0.05 µg\* of AM31858FC-N or AM31858FC-L per 10<sup>6</sup> cells.
5. Vortex the tubes to ensure thorough mixing of antibody and cells.
6. Incubate the tubes for 30 minutes at 4°C.
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: 100%