

TECHNICAL DATA SHEET

# FITC Mouse Lineage Cocktail with Isotype Control

Catalog Number: 92-7770

## PRODUCT INFORMATION

**Contents:** FITC Mouse Lineage Cocktail with Isotype Control

**Isotype:** Rat IgG2a, kappa; Rat IgG2b, kappa

**Concentration:** 20 uL/test

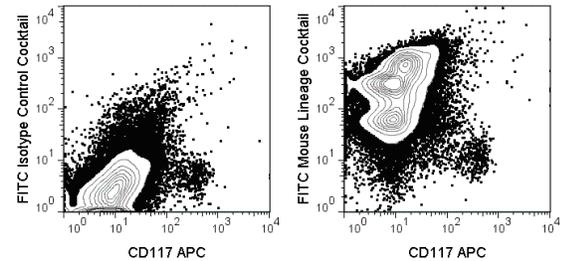
**Clone:** 17A2, M1/70, RA3-6B2, RB6-8C5, TER-119

**Reactivity:** Mouse

**Use By:** 12 months from date of receipt

**Storage Conditions:** 2-8°C protected from light

**Formulation:** 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>,  
0.1% gelatin, pH7.2



C57Bl/6 bone marrow cells were stained with APC Anti-Mouse CD117 (20-1172) and FITC Mouse Lineage Cocktail (92-7770) (right panel) or FITC Isotype Control Cocktail (left panel).

## DESCRIPTION

The FITC Mouse Lineage Cocktail contains a combination of pre-diluted antibodies that identify lineage committed cells by flow cytometry and facilitate their exclusion from hematopoietic progenitor cells in mouse bone marrow. The antibodies in the cocktail react with cells from major hematopoietic lineages including T, B and NK cells, monocytes/macrophages, granulocytes and erythrocytes.

The Lineage Cocktail contains the following FITC conjugated antibodies: anti-mouse CD3 (17A2), anti-mouse CD11b (M1/70), anti-mouse CD45/B220 (RA3-6B2), anti-mouse Ly-6G (Gr-1) (RB6-8C5) and anti-mouse TER-119 (TER-119). An Isotype Control Cocktail consisting of FITC conjugated isotype-matched control antibodies (Rat IgG2a, kappa; Rat IgG2b, kappa) is also provided in a separate vial.

## PREPARATION & STORAGE

The monoclonal antibodies in this cocktail were purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

## APPLICATION NOTES

This antibody preparation has been pre-titrated and quality-tested for flow cytometry using an appropriate cell type. The antibody has been diluted for use at 20 µL per test, defined as the amount of antibody that will stain a cell sample in a final volume of approximately 100 µL. The number of cells within a sample should be determined empirically, but typically ranges between 1x10<sup>5</sup> to 1x10<sup>8</sup> cells.

Two vials are provided in this reagent set. The antibody cocktail is in one vial, labeled FITC Mouse Lineage Antibody Cocktail. The isotype control cocktail is in a separate vial, labeled FITC Mouse Lineage Isotype Control Cocktail.

## REFERENCES

- Okada S, Nakauchi H, Nagayoshi K, Nishikawa S, Miura Y and Suda T. 1992. Blood. 80(12): 3044-3050.
- Mayle A, Luo M, Jeong M and Goodell M. 2013. Cytometry. 83A: 27-37.
- Turksen K, ed. 2013. Stem Cells and Aging: Methods and Protocols. Humana Press. 2013. Vol 976: 25-35.

Tonbo Biosciences tests all antibodies by flow cytometry. Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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