

Anti-Mouse TER119 Antibody, Clone TER-119, PE



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Antibodies

Rat monoclonal IgG2b antibody
against mouse TER119, PE-conjugated

Catalog #60033PE.1
#60033PE

50 µg 0.2 mg/mL
200 µg 0.2 mg/mL

FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.

Product Description

The TER-119 antibody reacts with murine TER119 (Ly-76), an ~52 kDa protein associated with glycophorin A on the surface of cells of the erythroid lineage in embryonic yolk sac, fetal and newborn liver, adult bone marrow, peripheral blood, and lymphoid organs. TER119 is an erythroid-specific marker expressed at all stages of differentiation from early proerythroblasts to mature erythrocytes, but not by erythroid colony-forming cells (BFU-E, blast-forming unit erythroid, or CFU-E, colony-forming unit erythroid). The TER-119 antibody is a component of the "lineage cocktail" used to detect, or deplete cells committed to hematopoietic lineages. In adult mice, TER119 is found on ~20 - 25% of bone marrow cells and ~2 - 3% of splenocytes.

Target Antigen Name:	TER119
Alternative Names:	Ly-76, TER-119
Gene ID:	104231
Species Reactivity:	Mouse
Host Species:	Rat (WI)
Clonality:	Monoclonal
Clone:	TER-119
Isotype:	IgG2b, kappa
Immunogen:	Mouse (C57BL/6) fetal liver cells
Conjugate:	PE

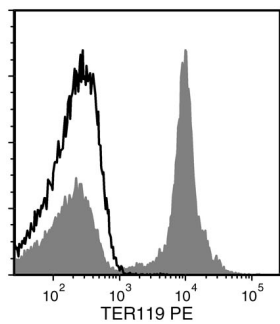
Applications

Verified:	CellSep, FC
Reported:	FC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse CD4+ T Cell Enrichment Kit (Catalog #19752) and EasySep™ Mouse CD4+ T Cell Isolation Kit (Catalog #19852).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; WB: Western blotting

Properties

Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Purification:	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
Stability and Storage:	Product stable at 2 - 8°C when stored undiluted. Do not freeze. Protect product from prolonged exposure to light. For product expiry date, please request a lot-specific Certificate of Analysis from techsupport@stemcell.com .
Directions for Use:	For flow cytometry the suggested use of this antibody is ≤0.25 µg per 1 x 10 ⁶ cells in 100 µL volume. It is recommended that the antibody be titrated for optimal performance for each application.



Flow cytometry analysis of C57BL/6 mouse bone marrow cells labeled with Anti-Mouse TER119 Antibody, Clone TER-119, PE (filled histogram) or a rat IgG2b, kappa PE isotype control antibody (solid line histogram).

Related Products

PRODUCT NAME	CATALOG #	SIZE
Anti-Mouse TER119 Antibody, Clone TER-119	60033	100 µg
Anti-Mouse TER119 Antibody, Clone TER-119, PE	60033PE.1	50 µg
Anti-Mouse TER119 Antibody, Clone TER-119, PE	60033PE	200 µg
Anti-Mouse TER119 Antibody, Clone TER-119, Biotin	60033BT.1	25 µg
Anti-Mouse TER119 Antibody, Clone TER-119, Biotin	60033BT	100 µg
Anti-Mouse TER119 Antibody, Clone TER-119, Alexa Fluor® 488	60033AD	100 µg

References

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2. Maraskovsky E, et al. Dramatic increase in the numbers of functionally mature dendritic cells in Flt3 ligand-treated mice: multiple dendritic cell subpopulations identified. *J Exp Med* 184(5): 1953-62, 1996 (FA)

3. Kitajima, K. et al. Definitive but not primitive hematopoiesis is impaired in jumonji mutant mice. *Blood* 93(1): 87-95, 1999 (IHC)

4. Kina T, et al. The monoclonal antibody TER-119 recognizes a molecule associated with glycophorin A and specifically marks the late stages of murine erythroid lineage. *Br J Haematol* 109(2): 280-87, 2000 (IP, WB)

5. Vannucchi AM, et al. Identification and characterization of a bipotent (erythroid and megakaryocytic) cell precursor from the spleen of phenylhydrazine-treated mice. *Blood* 95(8): 2559-68, 2000

6. Grisendi S, et al. Role of nucleophosmin in embryonic development and tumorigenesis. *Nature* 437(7055): 147-53, 2005 (FC)

7. Chappaz S, et al. Increased TSLP availability restores T- and B-cell compartments in adult IL-7 deficient mice. *Blood* 110(12): 3862-70, 2007 (FC)

8. Sung JH, et al. Isolation and characterization of mouse mesenchymal stem cells. *Transplant Proc* 40(8): 2649-54, 2008 (IHC, FC)

9. Heuser M, et al. MN1 overexpression induces acute myeloid leukemia in mice and predicts ATRA resistance in patients with AML. *Blood* 110(5): 1639-47, 2007 (FC)

10. Morioka S, et al. TAK1 kinase signaling regulates embryonic angiogenesis by modulating endothelial cell survival and migration. *Blood* 120(18): 3846-57, 2012