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

Antibodies

Rat monoclonal IgG2b antibody against mouse TER119, PE-conjugated

Catalog #100-0452	100 µg	0.2 mg/mL
#100-0451	25 µg	0.2 mg/mL

STEMCELL™ TECHNOLOGIES
Scientists Helping Scientists™ | WWW.STEMCELL.COM
TOLL FREE PHONE 1 800 667 0322 • PHONE +1 604 877 0713
INFO@STEMCELL.COM • TECHSUPPORT@STEMCELL.COM
FOR GLOBAL CONTACT DETAILS VISIT OUR WEBSITE

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 (Phycoerythrin)

Applications

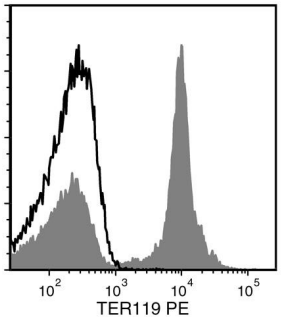
Verified:	CellSep, FC
Reported:	FACS, FC, IF
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse CD4+ T Cell Isolation Kit (Catalog #19852).

Abbreviations: CellSep: Cell separation; ChIP: Chromatin immunoprecipitation; FA: Functional assay; FACS: Fluorescence activated cell sorting; FC: Flow cytometry; ICC: Immunocytochemistry; IF: Immunofluorescence microscopy; IHC: Immunohistochemistry; IP: Immunoprecipitation; RIA: Radioimmunoassay; WB: Western blotting

Properties

Formulation:	Phosphate-buffered saline, pH 7.2, containing 0.09% sodium azide and 0.1% gelatin
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. Stable until expiry date (EXP) on label.
Directions for Use:	For flow cytometry, the suggested use of this antibody is ≤ 0.5 µg per 1 x 10^6 cells in 100 µL. It is recommended that the antibody be titrated for optimal performance for each application.

Data



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

For a complete list of antibodies, including other conjugates, sizes and clones, as well as related products available from STEMCELL Technologies, visit www.stemcell.com/antibodies or contact us at techsupport@stemcell.com.

References

1. Wang J et al. (2019) Procr-expressing progenitor cells are responsible for murine ovulatory rupture repair of ovarian surface epithelium. Nat Commun 10(1): 4966. (FACS)
2. Chennupati V et al. (2018) Ribonuclease inhibitor 1 regulates erythropoiesis by controlling GATA1 translation. J Clin Invest 128(4): 1597–1614. (IF)
3. Barros-Silva JD et al. (2018) Single-cell analysis identifies LY6D as a marker linking castration-resistant prostate luminal cells to prostate progenitors and cancer. Cell Rep 25(12): 3504–18.e6. (FACS)
4. Chamberlin T et al. (2017) Obesity reversibly depletes the basal cell population and enhances mammary epithelial cell estrogen receptor alpha expression and progenitor activity. Breast Cancer Res 19(1): 1–18. (FC)
5. BitMansour A et al. (2016) The role of regulatory b cell-like malignant cells and Treg cells in the mouse model of BCL1 tumor dormancy. PLoS One 11(12): 1–20. (FC)
6. Obeidi N et al. (2016) The effect of Mir-451 upregulation on erythroid lineage differentiation of murine embryonic stem cells. Cell J 18(2): 165–78. (FC)
7. Cui S et al. (2015) Compound loss of function of nuclear receptors Tr2 and Tr4 leads to induction of murine embryonic β-type globin genes. Blood 125(9): 1477–87. (FACS, FC)
8. Suenaga F et al. (2015) Loss of lymph node fibroblastic reticular cells and high endothelial cells is associated with humoral immunodeficiency in mouse graft-versus-host disease. J Immunol 194(1): 398–406. (FC)
9. Rehn M et al. (2014) Hypoxic induction of vascular endothelial growth factor regulates erythropoiesis but not hematopoietic stem cell function in the fetal liver. Exp Hematol 42(11): 941–4.e1. (FC)
10. Morioka S et al. (2012) TAK1 kinase signaling regulates embryonic angiogenesis by modulating endothelial cell survival and migration. Blood 120(18): 3846–57.
11. Sung JH et al. (2008) Isolation and characterization of mouse mesenchymal stem cells. Transplant Proc 40(8): 2649–54. (IHC, FC)
12. Chappaz S et al. (2007) Increased TSLP availability restores T- and B-cell compartments in adult IL-7 deficient mice. Blood 110(12): 3862–70. (FC)
13. Heuser M et al. (2007) MN1 overexpression induces acute myeloid leukemia in mice and predicts ATRA resistance in patients with AML. Blood 110(5): 1639–47. (FC)
14. Grisendi S et al. (2005) Role of nucleophosmin in embryonic development and tumorigenesis. Nature 437(7055): 147–53. (FC)
15. Kina T et al. (2000) 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): 280–7. (IP, WB)
16. Vannucchi AM et al. (2000) Identification and characterization of a bipotent (erythroid and megakaryocytic) cell precursor from the spleen of phenylhydrazinetreated mice. Blood 95(8): 2559–68.
17. Kitajima K et al. (1999) Definitive but not primitive hematopoiesis is impaired in jumonji mutant mice. Blood 93(1): 87–95. (IHC)
18. Maraskovsky E et al. (1996) 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. (FA)
19. Ikuta K et al. (1990) A developmental switch in thymic lymphocyte maturation potential occurs at the level of hematopoietic stem cells. Cell 62(5): 863–74. (FC, IP, WB)