Antibodies

Anti-Mouse TER119 Antibody, Clone TER-119, Alexa Fluor® 488

Rat monoclonal IgG2b antibody against mouse TER119, Alexa Fluor® 488-conjugated

100 µg

Catalog #60033AD

Document #27471 | Version 1_0_0

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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 differentation 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:	Alexa Fluor® 488

Applications

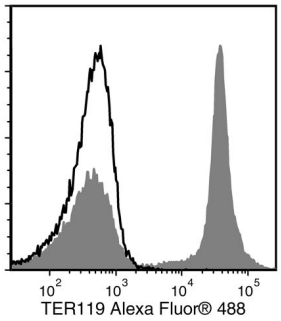
Verified:	FC
Reported:	FC, ICC, IF, IHC
Special Applications:	This antibody clone has been verified for purity assessments of cells isolated with EasySep™ kits, including EasySep™ Mouse CD4+ T Cell Enrichment Kit (Catalog #19752) and EasySep™ Mouse CD4+ T Cell Isolation Kit (Catalog #19852).

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

Size:	100 µg
Concentration:	0.5 mg/mL
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide
Purification:	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.
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 10e6 cells in 100 µL volume. 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, Alexa Fluor® 488 (filled histogram) or a rat IgG2b, kappa Alexa Fluor® 488 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, Alexa Fluor® 488	60033AD	100 µg
Anti-Mouse TER119 Antibody, Clone TER-119, Biotin	60033BT	100 µg
Anti-Mouse TER119 Antibody, Clone TER-119, PE	60033PE	200 µg

References

1. Kina, T. et al. A developmental switch in thymic lymphocyte maturation potential occurs at the level of hematopoietic stem cells. Cell 62(5): 863-74, 1990 (FC, IP, WB)
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