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TER-119 Monoclonal Antibody (TER-119), PerCP-Cyanine5.5, eBioscience™

Catalog Number **45-5921-80**

Product data sheet

Details	
Size	25 µg
Host/Isotope	Rat / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	TER-119
Conjugate	PerCP-Cyanine5.5
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!

Species Reactivity	
Species reactivity	Mouse
Published species	Fish, Mouse, Human, Not Applicable

Tested Applications	Dilution *
Flow Cytometry (Flow)	0.5 µg/test

Published Applications	
Flow Cytometry (Flow)	See 7 publications below

* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.

Product specific information

Description: The TER-119 monoclonal antibody reacts with mouse erythroid cells from early proerythroblast to mature erythrocyte stages. The TER-119 antigen is present in yolk sac, fetal and newborn liver, but is not expressed by cells carrying BFU-E and CFU-E activities. Several erythroleukemia cell lines tested so far are negative for expression of TER-119 antigen even after dimethylsulfoxide stimulation. Biochemical and molecular analysis of the TER-119 antigen indicate that this molecule is associated with the surface glycophorin A, but is not a typical glycophorin. Applications Reported: This TER-119 antibody has been reported for use in flow cytometric analysis. Applications Tested: This TER-119 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest. Excitation: 488 nm; Emission: 695 nm; Laser: Blue Laser. Filtration: 0.2 µm post-manufacturing filtered.

Background/Target Information

TER-119 is a lineage marker for erythroid cells from early proerythroblast to mature erythrocyte stages in adult blood, spleen, and bone marrow. It is also present in yolk sac, and fetal and newborn liver. The TER-119 antigen is not expressed by cells of earlier erythroid development at BFU-e (blast-forming unit erythroid) stage or CFU-e (colony-forming unit erythroid) stage.

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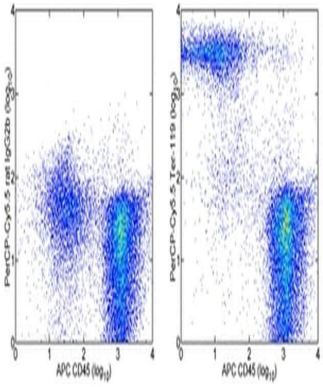
Product Images For TER-119 Monoclonal Antibody (TER-119), PerCP-Cyanine5.5, eBioscience™



TER-119 Antibody (45-5921-80) in Flow

Staining of C57BL/6 bone marrow cells with Anti-Mouse CD45 APC (Product # 17-0451-82) and 0.25 µg of Rat IgG2b K Isotype Control PerCP-Cyanine5-5 (Product # 45-4031-80) (left) or 0.25 µg of Anti-Mouse TER-119 PerCP-Cyanine5-5 (right). Total viable cells were used for analysis.

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PubMed References For TER-119 Monoclonal Antibody (TER-119), PerCP-Cyanine5.5, eBioscience™

7 Flow Cytometry References

Species / Dilution	Summary
Mouse / Not Cited	45-5921 was used in Flow cytometry/Cell sorting to investigate the role that CLEC-2 plays in the development and maintenance of lymph nodes. Blood (2014; 123: 3200) **"CLEC-2 is required for development and maintenance of lymph nodes."** Author(s):Bénézech C,Nayar S,Finney BA,Withers DR,Lowe K,Desanti GE,Marriott CL,Watson SP,Caamaño JH,Buckley CD,Barone F PubMed Article URL:http://dx.doi.org/10.1182/blood-2013-03-489286
Mouse / Not Cited	45-5921 was used in Flow cytometry/Cell sorting to report that the small molecule YH250 stimulates hematopoiesis in lethally or sublethally irradiated mice. PloS one (2017; 12:) **"Small molecule p300/catenin antagonist enhances hematopoietic recovery after radiation."** Author(s):Zhao Y,Wu K,Nguyen C,Smbatyan G,Melendez E,Higuchi Y,Chen Y,Kahn M PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0177245
Mouse / Not Cited	45-5921-82 was used in Flow Cytometry to conclude that SNAI2 is a critical regulator of the transcriptional network maintaining MSPCs by the suppression of osteopontin expression. Developmental cell (2020; 53: 503) **"Snai2 Maintains Bone Marrow Niche Cells by Repressing Osteopontin Expression."** Author(s):Wei Q,Nakahara F,Asada N,Zhang D,Gao X,Xu C,Alfieri A,Brodin NP,Zimmerman SE,Mar JC,Guha C,Guo W,Frenette PS PubMed Article URL:http://dx.doi.org/10.1016/j.devcel.2020.04.012
Mouse / Not Cited	45-5921-82 was used in Flow cytometry/Cell sorting to reveal an intricate interplay between the microbiota, macrophages, and iron, and their essential roles in regulating critical HSC fate decisions under stress. Cell stem cell (2022; 29: 232) **"The microbiota regulates hematopoietic stem cell fate decisions by controlling iron availability in bone marrow."** Author(s):Zhang D,Gao X,Li H,Borger DK,Wei Q,Yang E,Xu C,Pinho S,Frenette PS PubMed Article URL:http://dx.doi.org/10.1016/j.stem.2021.12.009
Mouse / Not Cited	45-5921-82 was used in Flow cytometry/Cell sorting to uncover an immunoregulatory role for the nucleotide release channel, Panx1, in T cell crosstalk during airway disease. Immunity (2021; 54: 1715) **"Pannexin 1 channels facilitate communication between T cells to restrict the severity of airway inflammation."** Author(s):Medina CB,Chiu YH,Stremska ME,Lucas CD,Poon I,Tung KS,Elliott MR,Desai B,Lorenz UM,Bayliss DA,Ravichandran KS PubMed Article URL:http://dx.doi.org/10.1016/j.immuni.2021.06.014
Mouse / Not Cited	45-5921 was used in Flow cytometry/Cell sorting to identify components of the transforming growth factor pathway as key targets of miR-143/145. Nature communications (2018; 9:) **"miR-143/145 differentially regulate hematopoietic stem and progenitor activity through suppression of canonical TGF signaling."** Author(s):Lam J,van den Bosch M,Wegrzyn J,Parker J,Ibrahim R,Slowski K,Chang L,Martinez-Høyer S,Condorelli G,Boldin M,Deng Y,Umlandt P,Fuller M,Karsan A PubMed Article URL:http://dx.doi.org/10.1038/s41467-018-04831-3
Mouse / Not Cited	45-5921-82 was used in Flow cytometry/Cell sorting to present an optimized protocol that describes the digestion and enrichment steps for the isolation and analysis of rare populations of stromal cells, including fibroblastic reticular cells, perivascular cells, and glial cells found in the spleen. STAR protocols (2022; 3:) **"An optimized protocol for the isolation of rare stromal cell populations from the mouse spleen."** Author(s):Alexandre YO,Mueller SN PubMed Article URL:http://dx.doi.org/10.1016/j.xpro.2022.101923

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