Performance guaranteed

Product data sheet



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

Catalog Number 45-5921-80

Details		Species Reactivity	
Size	25 µg	Species reactivity	Mouse
Host/Isotope	Rat / IgG2b, kappa	Published species	Fish, Mouse, Human, Not Applicable
Class	Monoclonal		
Туре	Antibody	Tested Applications	Dilution *
Clone	TER-119	Flow Cytometry (Flow)	0.5 μg/test
Conjugate	PerCP-Cyanine5.5	Published Applications	_
Form	Liquid	Flow Cytometry (Flow)	See 12 publications below
Concentration	0.2 mg/mL	* 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.	
Purification	Affinity chromatography		
Storage buffer	PBS, pH 7.2		
Contains	0.09% sodium azide		
Storage Conditions	4° C, store in dark, DO NOT		

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 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. 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 μ m 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.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are waranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package insents ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unlies otherwise stated in the Documentation, inits warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample lumined to the periad public doct and does not used on the product will contain to suitability for use in product will contain to suitability and model or sample lumined to Buyer. Any model or sample lumined to Buyer. Buyer and quality of goods and does not extend to anyone other than the Buyer. Any model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS UMITED TO REPAR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(5) AT SELEX SOLE OPTION. THERE IS NO OBLIGATION TO REFAR, REPLACE OR REFUND FOR RPRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE. (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER. (III) USE OF THE PRODUCTS IN A MAINER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. IN A MAINER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. IN A MAINER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. IN A MAINER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. IN A MAINER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. IN A MAINER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. IN A MAINER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. IN A MAINER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. IN A MAINER FOR WHICH THEY WERE NOT DESIGNED AND HANDLING OF THE PRODUCT. IN A MAINER FOR WHICH THEY WERE NOT DESIGNED AND HANDLING OF THE PRODUCT. IN A MAINER STORAGE AND HANDLING OF THE PRODUCT. IN A MAINER FOR WHICH THEY WERE NOT DESIGNED AND HANDLING OF THE PRODUCT. IN A MAINER FOR WHICH THEY WERE NOT DESIGNED AND HANDLING OF THE PRODUCT. IN A MAINER FOR WHICH THEY WERE NOT DESIGNED AND HANDLING OF THE PRODUCT. IN A MAINER FOR WHICH THEY WERE NOT DESIGNED AND HANDLING OF THE PRODUCT. IN A MAINER FOR WHICH THEY WERE NOT DESIGNED AND HANDLING OF THE PRODUCT.

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.

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is vaid only when used by properly trained individuals. Unless otherwise stated in the Documentation, nits warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnified to Buyer is merely illustrative of the general type and quality of opost and does not extend to anyone other than the Buyer. Any model or sample.

NO OTHER WARRANTIES, EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAR, REPLACEE OR REFUND FOR THE NON-CONFORMING PRODUCTS) AT THE RESULCE OPTION. THERE IS NO OBLIGATION TO REFAR, REPLACE OR REFUND FOR REPLAUE OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FALL TO RE(I) CONFERENCE OF THE RODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, (IV) MIRPORES TORAGE AND HANDLING OF THE RODUCTS. IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, (IV) WINFORES TORAGE AND HANDLING OF MERTINE PRODUCTS. IN THE RESULT OF (II) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.

PubMed References For TER-119 Monoclonal Antibody (TER-119), PerCP-Cyanine5.5, eBioscience™			
12 Flow Cytometry Refere	nces		
Species / Dilution	Summary		
	Published figure using TER-119 monoclonal antibody (Product # 45-5921-82) in Flow Cytometry		
Not Applicable / Not Cited	Stem cell research & therapy (2021; 12:) "Inhibition of TGF improves hematopoietic stem cell niche and ameliorates cancer-related anemia." Author(s):Wang B,Wang Y,Chen H,Yao S,Lai X,Qiu Y,Cai J,Huang Y,Wei X,Guan Y,Wang T,Wang J,Xiang AP PubMed Article URL:http://dx.doi.org/10.1186/s13287-020-02120-9		
	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.		
Mouse / Not Cited	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		
	45-5921 was used in Flow cytometry/Cell sorting to report that the small molecule YH250 stimulates hematopoiesis in lethally or sublethally irradiated mice.		
Mouse / Not Cited Not Applicable / Not Cited Mouse / Not Cited	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		
	45-5921 was used in Flow cytometry/Cell sorting to show that combined biallelic Cebpa and Gata2 zinc finger-1 (ZnF1) mutations cooperatively induce bilineage AEL, and that the major leukemia-initiating cell (LIC) population has a neutrophilmonocyte progenitor (NMP) phenotype.		
	Cancer cell (2020; 37: 690) "C/EBP and GATA-2 Mutations Induce Bilineage Acute Erythroid Leukemia through Transformation of a Neomorphic Neutrophil-Erythroid Progenitor." Author(s):Di Genua C,Valletta S,Buono M,Stoilova B,Sweeney C,Rodriguez-Meira A,Grover A,Drissen R,Meng Y, Beveridge R,Aboukhalil Z,Karamitros D,Belderbos ME,Bystrykh L,Thongjuea S,Vyas P,Nerlov C PubMed Article URL:http://dx.doi.org/10.1016/j.ccell.2020.03.022		
Not Applicable / Not Cited	Published figure using TER-119 monoclonal antibody (Product # 45-5921-82) in Flow Cytometry		
	Science advances (2021; 7:) "Lef1 restricts ectopic crypt formation and tumor cell growth in intestinal adenomas." Author(s):Heino S,Fang S,Lähde M,Högström J,Nassiri S,Campbell A,Flanagan D,Raven A,Hodder M,Nasreddin N,Xue HH,Delorenzi M,Leedham S,Petrova TV,Sansom O,Alitalo K PubMed Article URL:http://dx.doi.org/10.1126/sciadv.abj0512		
	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.		
Mouse / Not Cited	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		
	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.		
Mouse / Not Cited	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		

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise state in the Documentation, nits warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnified to Buyer is merely illustrative of the general type and quality of goods and does not represent that my Poduct will contine to sub-model.

NO OTHER WARRANTIES. EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE. OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELENTS SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MALEURE, (II) MISUSE, FALLT OR NEGLEGORCE OF OR BY BUYER, (III) USE OF THE FRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DEVENDED, OR (IV) MPROPERS STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, or any type of consumption by or application to human or animals.

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
Not Applicable / Not Cited	Published figure using TER-119 monoclonal antibody (Product # 45-5921-82) in Flow Cytometry
	The Journal of experimental medicine (2020; 217:) "Deregulated Notch and Wnt signaling activates early-stage myeloid regeneration pathways in leukemia." Author(s):Kang YA,Pietras EM,Passegué E PubMed Article URL:http://dx.doi.org/10.1084/jem.20190787
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
Not Applicable / Not Cited	Published figure using TER-119 monoclonal antibody (Product # 45-5921-82) in Flow Cytometry
	Frontiers in immunology (2021; 12:) "Sex Matters: Physiological Abundance of Immuno-Regulatory CD71+ Erythroid Cells Impair Immunity in Females." Author(s):Mashhouri S,Koleva P,Huynh M,Okoye I,Shahbaz S,Elahi S PubMed Article URL:http://dx.doi.org/10.3389/fimmu.2021.705197

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization.

Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise state in the Documentation, nits warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnified to Buyer is merely illustrative of the general type and quality of goods and does not represent that my Poduct will contine to sub-model.

NO OTHER WARRANTIES. EXPRESS OR IMPLED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE. OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELENTS SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MALEURE, (II) MISUSE, FALLT OR NEGLEGORCE OF OR BY BUYER, (III) USE OF THE FRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DEVENDED, OR (IV) MPROPERS STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, or any type of consumption by or application to human or animals.