

CD45.1 Monoclonal Antibody (A20), APC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse, Human
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), APC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	A20
Conjugate	APC
Excitation/Emission Max	651/660 nm
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!
RRID	AB_469398

Applications	Tested Dilution	Publications
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	105 Publications
Functional Assay (FN)	-	1 Publication

Product Specific Information

Description: The A20 monoclonal antibody reacts with the mouse CD45 molecule, the leukocyte common antigen (LCA) in CD45.1-expressing mouse strains. The strains that express CD45.1 include SJL/J, DA, STS/A and RIII. CD45.1 is expressed by all leukocytes in these strains.

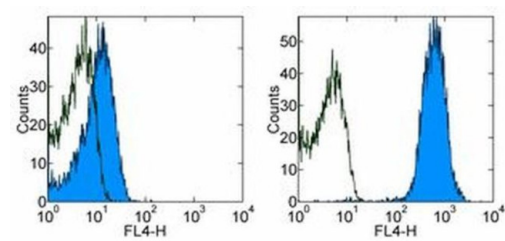
Applications Reported: The A20 antibody has been reported for use in flow cytometric analysis.

Applications Tested: The A20 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Excitation: 633-647 nm; **Emission:** 660 nm; **Laser:** Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD45.1 Monoclonal Antibody (A20), APC, eBioscience™



CD45.1 Antibody (17-0453-82) in Flow
Staining of BALB/c (left) or SJL (right) splenocytes with staining buffer (autofluorescence) (open histogram) or 0.25 µg of Anti-Mouse CD45.1 APC (filled histogram). Total viable cells were used for analysis.

View more figures on thermofisher.com

Immunohistochemistry (Frozen) (1)

Stem cell reports	Year 2018
iPSC-Derived Macrophages Effectively Treat Pulmonary Alveolar Proteinosis in Csf2rb-Deficient Mice.	Species Mouse
"17-0453 was used in Flow cytometry and IHC/IF to evaluate the airway residence, plasticity, and therapeutic efficacy of induced pluripotent stem cell-derived macrophages in a murine model of hereditary pulmonary alveolar proteinosis."	Dilution 1:200
Authors: Mucci A,Lopez-Rodriguez E,Hetzel M,Liu S,Suzuki T,Happle C,Ackermann M,Kempf H,Hillje R,Kunkiel J, Janosz E,Brennig S,Glage S,Bankstahl JP,Dettmer S,Rodt T,Gohring G,Trapnell B,Hansen G,Trapnell C,Knudsen L, Lachmann N,Moritz T	

Flow Cytometry (105)

iScience	Year 2023
R274X-mutated Phf6 increased the self-renewal and skewed T cell differentiation of hematopoietic stem cells.	Species Mouse
"17-0453-82 was used in Flow cytometry/Cell sorting to demonstrate that Phf6R274X plays a critical role in fine-tuning T cells and HSC homeostasis."	
Authors: Lan Y,Yuan S,Guo T,Hou S,Zhao F,Yang W,Cao Y,Chu Y,Jiang E,Yuan W,Wang X	

iScience	Year 2023
Niche-expressed Galectin-1 is involved in pre-B acute lymphoblastic leukemia relapse through pre-B cell receptor activation.	Species Mouse
"17-0453-82 was used in Flow cytometry/Cell sorting to show that non-cell autonomous signals transmitted by BM niches represent promising targets to improve B-ALL patient survival."	
Authors: Pelletier J,Balzano M,Destin J,Monterisino C,Delahaye MC,Marchand T,Bailly AL,Bardin F,Coppin E,Goubard A,Castellano R,de Bruijn MJW,Rip J,Collette Y,Dubreuil P,Tarte K,Broccardo C,Hendriks RW,Schiff C,Vey N,Aurrand-Lions M,Mancini SJC	

[View more Flow references on thermofisher.com](#)

Functional Assay (1)

Stem cell reports	Year 2018
Analysis of Runx1 Using Induced Gene Ablation Reveals Its Essential Role in Pre-liver HSC Development and Limitations of an In Vivo Approach.	Species Mouse
"17-0453-82 was used in Functional assays to study tamoxifen-inducible Runx1 inactivation in vivo."	
Authors: Senserrich J,Batsivari A,Rybtsov S,Gordon-Keylock S,Souilhol C,Buchholz F,Hills D,Zhao S,Medvinsky A	

More applications with references on thermofisher.com

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 stated in the Documentation, this 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 furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED 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 SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS 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 MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (iv) IMPROPER 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, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.