

# CD45.1 Monoclonal Antibody (A20), FITC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse
Host/Isotype	Mouse / IgG2a, kappa
Recommended Isotype Control	Mouse IgG2a kappa Isotype Control (eBM2a), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	A20
Conjugate	FITC
Excitation/Emission Max	498/517 nm
Form	Liquid
Concentration	0.5 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_465058

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	2 Publications
Flow Cytometry (Flow)	0.5 µg/test	87 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.

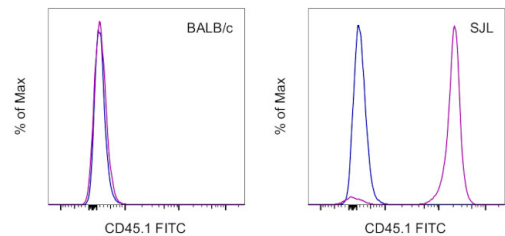
**Applications Reported:** The A20 antibody has been reported for use in flow cytometric analysis.

**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 10<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

**Excitation:** 488 nm; **Emission:** 520 nm; **Laser:** Blue Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

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



**CD45.1 Antibody (11-0453-82) in Flow**  
Staining of BALB/c (left) or SJL (right) mouse splenocytes with 0.25 µg of Mouse IgG2a kappa Isotype Control, FITC (Product # 11-4724-82) (blue histogram) or 0.25 µg of CD45.1 Monoclonal Antibody, FITC (purple histogram). Cells in the lymphocyte gate were used for analysis.

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Immunocytochemistry (2)

<p>Journal of immunology (Baltimore, Md. : 1950)</p> <p><b>Neoantigen Expression in Steady-State Langerhans Cells Induces CTL Tolerance.</b></p> <p>"11-0453 was used in Immunocytochemistry to study the function of Langerhans cells in vivo, without altering the dendritic cell subset composition in the skin."</p> <p>Authors: Strandt H,Pinheiro DF,Kaplan DH,Wirth D,Gratz IK,Hammerl P,Thalhamer J,Stoecklinger A</p>	<p>Year 2017</p> <p>Species Mouse</p>
<p>Cell cycle (Georgetown, Tex.)</p> <p><b>miR-33-mediated downregulation of p53 controls hematopoietic stem cell self-renewal.</b></p> <p>"11-0453 was used in Immunocytochemistry to define the role of miR-33 in controlling HSC self-renewal through p53."</p> <p>Authors: Herrera-Merchan A,Cerrato C,Luengo G,Dominguez O,Piris MA,Serrano M,Gonzalez S</p>	<p>Year 2010</p> <p>Species Mouse</p>

Flow Cytometry (87)

<p>Science advances</p> <p><b>Tet-mediated DNA demethylation regulates specification of hematopoietic stem and progenitor cells during mammalian embryogenesis.</b></p> <p>"Published figure using CD45.1 monoclonal antibody (Product # 11-0453-82) in Flow Cytometry"</p> <p>Authors: Ma L,Tang Q,Gao X,Lee J,Lei R,Suzuki M,Zheng D,Ito K,Frenette PS,Dawlaty MM</p>	<p>Year 2022</p>
<p>Nature medicine</p> <p><b>Stem cell architecture drives myelodysplastic syndrome progression and predicts response to venetoclax-based therapy.</b></p> <p>"11-0453-82 was used in Flow Cytometry to study the biological mechanisms that drive hypomethylating agent therapy failure at the stem-cell level to uncover vulnerabilities in the disease and halt its evolution."</p> <p>Authors: Ganan-Gomez I,Yang H,Ma F,Montalban-Bravo G,Thongon N,Marchica V,Richard-Carpentier G,Chien K,Manyam G,Wang F,Alfonso A,Chen S,Class C,Kanagal-Shamanna R,Ingram JP,Ogoti Y,Rose A,Loghavi S,Lockyer P,Cambo B,Muftuoglu M,Schneider S,Adema V,McLellan M,Garza J,Marchesini M,Giuliani N,Pellegrini M,Wang J,Walker J,Li Z,Takahashi K,Levenson JD,Bueso-Ramos C,Andreeff M,Clise-Dwyer K,Garcia-Manero G,Colla S</p>	<p>Year 2022</p> <p>Species Mouse</p> <p>Dilution 1:100</p>

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FN (1)

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