

CD45.1 Monoclonal Antibody (A20), PE, 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), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	A20
Conjugate	PE
Excitation/Emission Max	565/576 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_465675

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	1 Publication
Immunocytochemistry (ICC/IF)	-	3 Publications
Flow Cytometry (Flow)	0.5 µg/test	81 Publications

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.

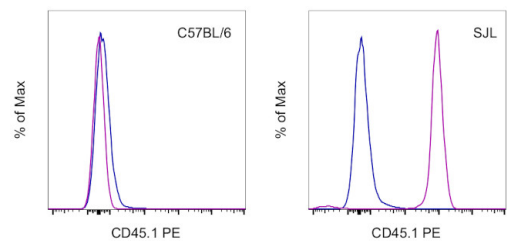
Applications Reported: The A20 antibody has been reported for use in flow cytometric analysis.

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: 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD45.1 Antibody (12-0453-82) in Flow
Staining of C57BL/6 (left) or SJL (right) mouse splenocytes with 0.25 µg of Mouse IgG2a kappa Isotype Control, PE (Product # 12-4724-82) (blue histogram) or 0.25 µg of CD45.1 Monoclonal Antibody, PE (purple histogram). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

86 References

Western Blot (1)

Immunity Roquin Suppresses the PI3K-mTOR Signaling Pathway to Inhibit T Helper Cell Differentiation and Conversion of Treg to Tfr Cells. "12-0453-82 was used in Miscellaneous, Western Blot to show Roquin-mediated control of PI3K-mTOR signaling prevents autoimmunity by restraining activation and differentiation of conventional T cells and specialization of Treg cells." Authors: Essig K,Hu D,Guimaraes JC,Alterauge D,Edelmann S,Raj T,Kranich J,Behrens G,Heiseke A,Floess S,Klein J, Maier A,Marschall S,Hrab de Angelis M,Leonhardt H,Calkhoven CF,Noessner E,Brockner T,Huehn J,Krug AB,Zavolan M,Baumjohann D,Heissmeyer V	Year 2017 Species Mouse
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Immunohistochemistry (1)

Cell DNA Damage Signaling Instructs Polyploid Macrophage Fate in Granulomas. Authors: Herrtwich L,Nanda I,Evangeliou K,Nikolova T,Horn V,Erny D,Stefanowski J,Rogell L,Klein C,Gharun K,Follo M, Seidl M,Kremer B,Münke N,Senges J,Fliegauf M,Aschman T,Pfeifer D,Sarrazin S,Sieweke MH,Wagner D,Dierks C, Haaf T,Ness T,Zaiss MM,Voll RE,Deshmukh SD,Prinz M,Goldmann T,Hölscher C,Hauser AE,Lopez-Contreras AJ,Grün D,Gorgoulis V,Diefenbach A,Henneke P,Triantafyllopoulou A	Year 2016 Species Mouse
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Immunocytochemistry (3)

PloS one Perforin competent CD8 T cells are sufficient to cause immune-mediated blood-brain barrier disruption. "12-0453 was used in Immunofluorescence to study how CD8 T cells are sufficient as a sole perforin-expressing cell type to cause BBB disruption in the PIFS model." Authors: Johnson HL,Willenbring RC,Jin F,Manhart WA,LaFrance SJ,Pirko I,Johnson AJ	Year 2015 Species Mouse Dilution 1:100
Journal of immunology (Baltimore, Md. : 1950) Cutting edge: Macrophages are required for localization of antigen-activated B cells to the follicular perimeter and the subsequent germinal center response. "12-0453 was used in Immunocytochemistry to examine whether the migration and rapid proliferation of antigen-specific B cells at the T cell zone boundaries in the spleen occurs without splenic macrophages present." Authors: Nikbakht N,Shen S,Manser T	Year 2013 Species Mouse

View more ICC/IF references on thermofisher.com

Flow (81)

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