

CD45 Monoclonal Antibody (30-F11), Alexa Fluor™ 700, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Bacteria, Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Alexa Fluor™ 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	30-F11
Conjugate	Alexa Fluor™ 700
Excitation/Emission Max	696/719 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_891454

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	61 Publications

Product Specific Information

Description: The 30-F11 monoclonal antibody reacts with all isoforms of mouse CD45, also known as Leukocyte Common Antigen (LCA). CD45 is expressed by all hematopoietic cells excluding mature erythrocytes and platelets. The cytoplasmic portion of CD45 has tyrosine phosphatase enzymatic activity and plays an important role in activation of lymphocytes.

Applications Reported: This 30-F11 antibody has been reported for use in flow cytometric analysis.

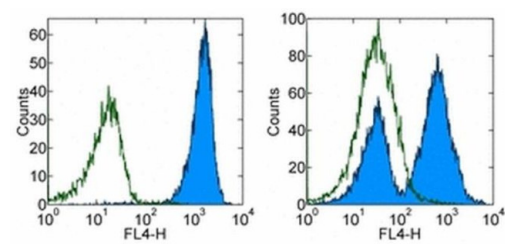
Applications Tested: This 30-F11 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined 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.

Alexa Fluor® 700 emits at 723 nm and can be excited with the red laser (633 nm). Most instruments will require a 685 LP mirror and 710/20 filter. Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; **Emission:** 723 nm; **Laser:** Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD45 Monoclonal Antibody (30-F11), Alexa Fluor™ 700, eBioscience™



CD45 Antibody (56-0451-82) in Flow
Staining of C57BL/6 splenocytes (left) and C57BL/6 bone marrow cells (right) with 0.25 µg of Rat IgG2b K Isotype Control Alexa Fluor® 700 (Product # 56-4031-80) (open histogram) or 0.25 µg of Anti-Mouse CD45 Alexa Fluor® 700 (filled histogram). Total viable cells were used for analysis.

62 References

Immunohistochemistry (1)

Immunity	Year 2018
E3 Ligase VHL Promotes Group 2 Innate Lymphoid Cell Maturation and Function via Glycolysis Inhibition and Induction of Interleukin-33 Receptor.	Species Mouse
"56-0451 was used in Immunohistochemistry to indicate that the VHL-HIF-glycolysis axis is essential for the late-stage maturation and function of ILC2s via targeting IL-33-ST2 pathway."	
Authors: Li Q,Li D,Zhang X,Wan Q,Zhang W,Zheng M,Zou L,Elly C,Lee JH,Liu YC	

Flow Cytometry (61)

Cell death & disease	Year 2023
CD11c⁺ microglia promote white matter repair after ischemic stroke.	Species Mouse
"56-0451-82 was used in Flow cytometry/Cell sorting to suggest that spontaneous white matter repair occurs after ischemic stroke, while CD11c ⁺ microglia play critical roles in this white matter restorative progress."	
Authors: Jia J,Zheng L,Ye L,Chen J,Shu S,Xu S,Bao X,Xia S,Liu R,Xu Y,Zhang M	
Dilution 1:300	
Cell death & disease	Year 2022
NF-B-inducing kinase (NIK) is activated in pancreatic -cells but does not contribute to the development of diabetes.	Species Human
"56-0451-82 was used in Flow cytometry/Cell sorting to suggest that NIK activation is dispensable for the development of diabetes."	
Authors: Xiao P,Takiishi T,Violo NM,Licata G,Dotta F,Sebastiani G,Marselli L,Singh SP,Sze M,Van Loo G,Dejardin E, Gurzov EN,Cardozo AK	

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