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.

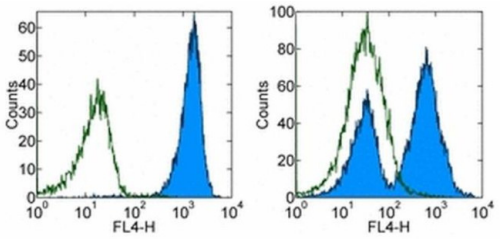
Applications Tested: This 30-F11 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 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

E3 Ligase VHL Promotes Group 2 Innate Lymphoid Cell Maturation and Function via Glycolysis Inhibition and Induction of Interleukin-33 Receptor.

"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

Year
2018

Species
Mouse

Flow Cytometry (61)

Cell death & disease

CD11c^{+} microglia promote white matter repair after ischemic stroke.

"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

Year
2023

Species
Mouse

Dilution
1:300

Cell death & disease

NF-B-inducing kinase (NIK) is activated in pancreatic -cells but does not contribute to the development of diabetes.

"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,Violato NM,Licata G,Dotta F,Sebastiani G,Marselli L,Singh SP,Sze M,Van Loo G,Dejardin E,Gurzov EN,Cardozo AK

Year
2022

Species
Human

View more Flow references on thermofisher.com

More applications with references on thermofisher.com