CD45RB Monoclonal Antibody (C363.16A), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	C363.16A
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_465681

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	-	1 Publication
Flow Cytometry (Flow)	0.25 µg/test	21 Publications

Product Specific Information

Description: The C363.16A monoclonal antibody reacts with the exon B-dependent isoform of mouse CD45. This CD45 isoform is expressed by thymocytes, peripheral B cells and a subpopulation of T cells at high density and by dendritic cells and macrophages at low density. CD45 is a protein tyrosine phosphatase and serves an important role in leukocyte signal transduction.

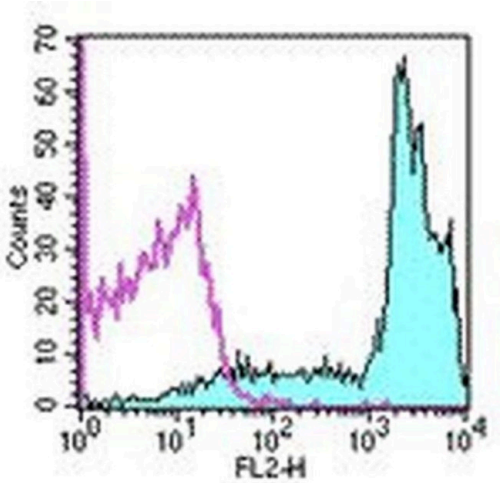
Applications Reported: The C363.16A antibody has been reported for use in flow cytometric analysis.

Applications Tested: The C363.16A antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 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.

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 CD45RB Monoclonal Antibody (C363.16A), PE, eBioscience™



CD45RB Antibody (12-0455-82) in Flow
Staining of C57BL/6 splenocytes with 0.25 µg of Rat IgG2a kappa Isotype Control PE (Product # 12-4321-80) (open histogram) or 0.125 µg of Anti-Mouse CD45RB PE (filled histogram). Total viable cells were used for analysis.

22 References

Immunocytochemistry (1)

Mucosal immunology

TNF hampers intestinal tissue repair in colitis by restricting IL-22 bioavailability.

"12-0455-82 was used in Immunocytochemistry to show how anti-TNF therapy induces mucosal healing by increasing IL-22 availability and implicates new therapeutic opportunities for IBD."

Authors: Ninnemann J,Winsauer C,Bondareva M,Kühl AA,Lozza L,Durek P,Lissner D,Siegmund B,Kaufmann SHE, Mashreghi MF,Nedospasov SA,Kruglov AA

Year
2022

Species
Mouse

Flow Cytometry (21)

Nature communications

Mitochondrial transcription factor A in RORt$^+$ lymphocytes regulate small intestine homeostasis and metabolism.

"12-0455-82 was used in Flow Cytometry to show that IL-22, a cytokine produced by RORt+ lymphocytes inhibits IL-13-induced tuft cell differentiation in vitro, and suppresses the tuft cell-type 2 immune circuit and small intestine lengthening in vivo, highlighting its key role in gut tissue remodeling."

Authors: Fu Z,Dean JW,Xiong L,Dougherty MW,Oliff KN,Chen ZE,Jobin C,Garrett TJ,Zhou L

Year
2021

Species
Mouse

Nature communications

Butyrophilin-like proteins display combinatorial diversity in selecting and maintaining signature intraepithelial T cell compartments.

"Published figure using CD45RB monoclonal antibody (Product # 12-0455-82) in Flow Cytometry"

Authors: Jandke A,Melandri D,Monin L,Ushakov DS,Laing AG,Vantourout P,East P,Nitta T,Narita T,Takayanagi H, Feederle R,Hayday A

Year
2020

View more Flow references on thermofisher.cn

More applications with references on thermofisher.cn

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