

CD5 Monoclonal Antibody (53-7.3), APC-eFluor™ 780, 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), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	53-7.3
Conjugate	APC-eFluor™ 780
Excitation/Emission Max	756/785 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_2573940

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.125 µg/test	13 Publications

Product Specific Information

Description: The 53-7.3 monoclonal antibody reacts with mouse CD5, a 67 kDa protein expressed by a majority of thymocytes, mature T cells and a subset of B cells. The expression of CD5 by a small subset of B cells characterizes a developmentally and functionally distinct lineage of B cells called B-1 cells. CD5 is a counter-receptor for CD72 and plays a role in the T-B cell interaction.

Applications Reported: This 53-7.3 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This 53-7.3 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.125 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.

APC-eFluor 780 emits at 780 nm and is excited with the Red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Light sensitivity: This tandem is sensitive to photo-induced oxidation. Please protect this vial and stained samples from light.

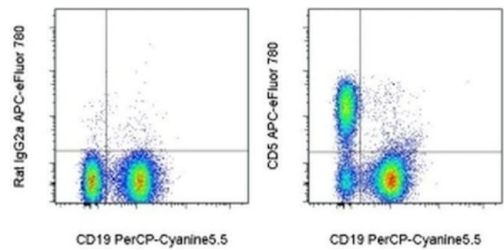
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency

/compensation. Some generalizations regarding fluorophore performance after fixation can be made, but clone specific performance should be determined empirically.

Excitation: 633-647 nm; Emission: 780 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD5 Monoclonal Antibody (53-7.3), APC-eFluor™ 780, eBioscience™



CD5 Antibody (47-0051-82) in Flow
Staining of BALB/c splenocytes with Anti-Mouse CD19 PerCP-Cyanine5-5 (Product # 45-0193-82) and 0.06 µg of Rat IgG2a K Isotype Control APC-eFluor® 780 (Product # 47-4321-82) (left) or 0.06 µg of Anti-Mouse CD5 APC-eFluor® 780 (right). Cells in the lymphocyte gate were used for analysis.

View more figures on thermofisher.com

13 References

Flow Cytometry (13)

Cells	Year 2023
Cissus quadrangularis (Hadjod) Inhibits RANKL-Induced Osteoclastogenesis and Augments Bone Health in an Estrogen-Deficient Preclinical Model of Osteoporosis Via Modulating the Host Osteoimmune System.	
"Published figure using CD5 monoclonal antibody (Product # 47-0051-82) in Flow Cytometry"	
Authors: Azam Z,Sapra L,Baghel K,Sinha N,Gupta RK,Soni V,Saini C,Mishra PK,Srivastava RK	
Nature communications	Year 2022
IL-33 induces thymic involution-associated naive T cell aging and impairs host control of severe infection.	
"Published figure using CD5 monoclonal antibody (Product # 47-0051-82) in Flow Cytometry"	
Authors: Xu L,Wei C,Chen Y,Wu Y,Shou X,Chen W,Lu D,Sun H,Li W,Yu B,Wang X,Zhang X,Yu Y,Lei Z,Tang R,Zhu J, Li Y,Lu L,Zhou H,Zhou S,Su C,Chen X	

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