CD3e Monoclonal Antibody (eBio500A2 (500A2)), APC-eFluor™ 780, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Syrian hamster / IgG
Class	Monoclonal
Type	Antibody
Clone	eBio500A2 (500A2)
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_2637316

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	2 Publications

Product Specific Information

Description: The eBio500A2 monoclonal antibody reacts with the 25 kD epsilon subunit of the mouse CD3 complex. CD3 subunits gamma, delta and epsilon are required for proper assembly, trafficking and surface expression of the TCR complex. CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells, as well as NKT cells. Binding of eBio500A2 to CD3 initiates the intracellular biochemical pathway resulting in cellular activation and proliferation. The 500A2 antibody is able to partially cross-block the 17A2 and 145-2C11 antibodies, indicating that all three of these anti-CD3 antibodies recognize distinct but overlapping epitopes.

Applications Reported: This eBio500A2 (500A2) antibody has been reported for use in flow cytometric analysis.

Applications Tested: This eBio500A2 (500A2) 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.

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 fluorochome.

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

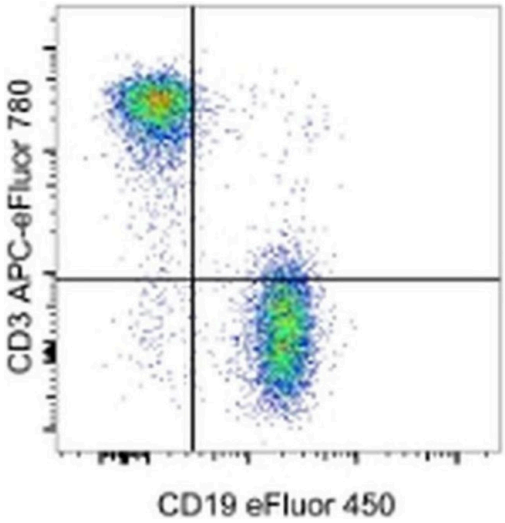
Fixation: Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL of cell sample + 100 µL of IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency

/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 CD3e Monoclonal Antibody (eBio500A2 (500A2)), APC-eFluor™ 780, eBioscience™



CD3e Antibody (47-0033-82) in Flow
Staining of SJL splenocytes with Anti-Mouse CD19 eFluor® 450 (Product # 48-0193-82) and 0.125 µg of Anti-Mouse CD3e APC-eFluor® 780. Cells in the lymphocyte gate were used for analysis.

2 References

Flow Cytometry (2)

Blood advances

Frequent mutations of FBXO11 highlight BCL6 as a therapeutic target in Burkitt lymphoma.

"47-0033-82 was used in Flow cytometry/Cell sorting to highlight the key role of BCL6 in BL biology and provide evidence that innovative therapeutic approaches, such as BCL6 degraders and direct MYC inhibition, could be exploited as a targeted therapy for BL."

Authors: Pighi C,Cheong TC,Compagno M,Patrucco E,Arigoni M,Olivero M,Wang Q,López C,Bernhart SH,Grande BM, Poggio T,Langellotto F,Bonello L,Dall'Olio R,Martínez-Martín S,Molinaro L,Francia di Celle P,Whitfield JR,Soucek L, Voena C,Calogero RA,Morin RD,Staudt LM,Siebert R,Zamò A,Chiarle R

Year
2021

Species
Mouse

Nature communications

Synergized regulation of NK cell education by NKG2A and specific Ly49 family members.

"Published figure using CD3e monoclonal antibody (Product # 47-0033-82) in Flow Cytometry"

Authors: Zhang X,Feng J,Chen S,Yang H,Dong Z

Year
2019