

# CD3 Monoclonal Antibody (17A2), APC-eFluor™ 780, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), APC-eFluor™ 780, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	17A2
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_1272181

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	1 µg/test	102 Publications

## Product Specific Information

**Description:** The 17A2 monoclonal antibody reacts with 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. Binding of 17A2 to CD3 initiates the intracellular biochemical pathway resulting in cellular activation and proliferation.

**Applications Reported:** This 17A2 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** This 17A2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 1 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<sup>5</sup> to 10<sup>8</sup> 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.

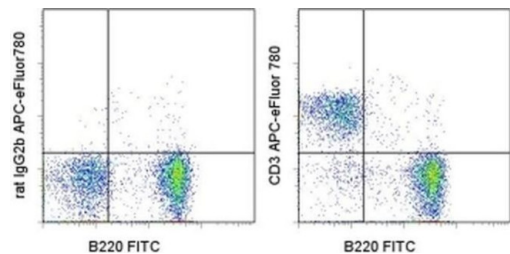
**Fixation:** Samples can be stored in IC Fixation Buffer (cat. 00-8222) (100 µL cell sample + 100 µL IC Fixation Buffer) or 1-step Fix/Lyse Solution (cat. 00-5333) for up to 3 days in the dark at 4°C with minimal impact on brightness and FRET efficiency

/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 CD3 Monoclonal Antibody (17A2), APC-eFluor™ 780, eBioscience™



**CD3 Antibody (47-0032-82) in Flow**  
Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and 0.5 µg of Rat IgG2b K Isotype Control APC-eFluor® 780 (Product # 47-4031-82) (left) or 0.5 µg of Anti-Mouse CD3 APC-eFluor® 780 (right). Total viable cells were used for analysis.

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102 References

Flow Cytometry (102)

<p>British journal of pharmacology</p> <p><b>Calcaratarin D, a labdane diterpenoid, attenuates mouse asthma via modulating alveolar macrophage function.</b></p> <p>"47-0032-82 was used in Flow cytometry/Cell sorting to demonstrate for the first time that CalD is a novel anti-inflammatory natural compound for allergic asthma that modulates AM function."</p> <p>Authors: Liao W,Foo HYC,Tran TNQ,Chai CLL,Wong WSF</p>	<p>Year 2023</p> <p>Species Mouse</p>
<p>Scientific reports</p> <p><b>LncRNA ANRIL-mediated miR-181b-5p/S1PR1 axis is involved in the progression of uremic cardiomyopathy through activating T cells.</b></p> <p>"Published figure using CD3 monoclonal antibody (Product # 47-0032-82) in Flow Cytometry"</p> <p>Authors: Xu Y,Cao L, Ji S,Shen W</p>	<p>Year 2022</p>

[View more Flow references on thermofisher.cn](#)

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