

CD3e Monoclonal Antibody (eBio500A2 (500A2)), Alexa Fluor™ 700, 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	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_837094

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	0.5 µg/test	10 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.

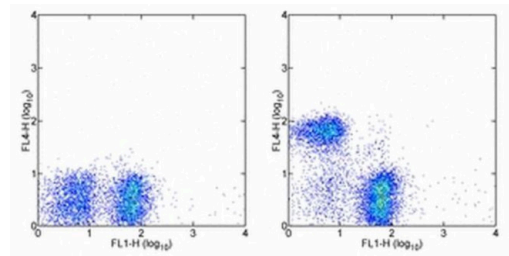
Applications Tested: This eBio500A2 (500A2) antibody has been tested by flow cytometric analysis. This can be used at less than or equal to 0.5 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁴ to 10⁸ 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 CD3e Monoclonal Antibody (eBio500A2 (500A2)), Alexa Fluor™ 700, eBioscience™



CD3e Antibody (56-0033-82) in Flow
Staining of BALB/c splenocytes with Anti-Mouse CD19 FITC (Product # 11-0193-82) and staining buffer (autofluorescence) (left) or 0.25 µg of Anti-Mouse CD3e Alexa Fluor® 700 (right). Cells in the lymphocyte gate were used for analysis.

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11 References

Immunohistochemistry (1)

Cell reports ILC3s control airway inflammation by limiting T cell responses to allergens and microbes. "Published figure using CD3e monoclonal antibody (Product # 56-0033-82) in Immunohistochemistry" Authors: Teng F,Tachó-Piñot R,Sung B,Farber DL,Worgall S,Hammad H,Lambrecht BN,Hepworth MR,Sonnenberg GF	Year 2021
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Flow Cytometry (10)

PLoS neglected tropical diseases Neutrophil-dendritic cell interaction plays an important role in live attenuated Leishmania vaccine induced immunity. "56-0033-82 was used in Flow Cytometry to show that LdCen-/- containing neutrophils phagocytized by DC markedly influence the phenotype and antigen presenting capacity of DCs early on and thus play an immune-regulatory role in shaping vaccine induced host protective response." Authors: Bhattacharya P,Ismail N,Saxena A,Gannavaram S,Dey R,Oljuskin T,Akue A,Takeda K,Yu J,Karmakar S,Dagur PK,McCoy JP,Nakhasi HL	Year 2022 Species Mouse Dilution 1:100
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iScience Immunogenicity and protective efficacy of an intranasal live-attenuated vaccine against SARS-CoV-2. "56-0033-82 was used in Flow Cytometry to evaluate a Newcastle disease virus (NDV)-based vectored-vaccine in mice and hamsters for its immunogenicity, safety and protective efficacy against SARS-CoV-2." Authors: Park JG,Oladunni FS,Rohaim MA,Whittingham-Dowd J,Tollitt J,Hodges MDJ,Fathallah N,Assas MB,Alhazmi W,Almilaibary A,Iqbal M,Chang P,Escalona R,Shivanna V,Torrelles JB,Worthington JJ,Jackson-Jones LH,Martinez-Sobrido L,Munir M	Year 2021 Species Mouse
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