

CD3 Monoclonal Antibody (17A2), eFluor 660, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Fish, Mouse
Host/Isotope	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), eFluor 660, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	17A2
Conjugate	eFluor® 660
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_10598657

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	0.25 µg/test	22 Publications
Immunofluorescence (IF)	✓	10 µg/mL	6 Publications
Immunohistochemistry (IHC)	-		6 Publications
Immunocytochemistry (ICC)	✓	10 µg/mL	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	✓	10 µg/mL	1 Publication

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, and immunohistochemical staining of frozen tissue sections.

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 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 10⁵ to 10⁸ cells/test. This 17A2 antibody has also been tested by immunohistochemistry on frozen mouse spleen and can be used at less than or equal to 10 µg/mL. It is

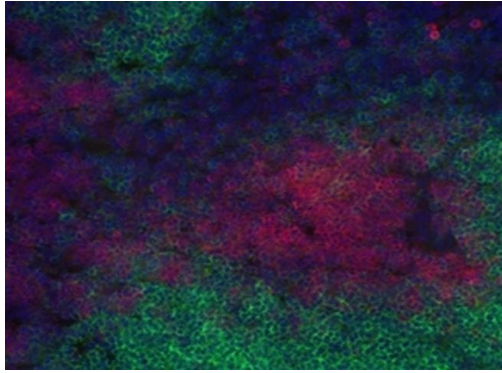
recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

Excitation: 633-647 nm; Emission: 668 nm; Laser: Red Laser.

Filtration: 0.2 µm post-manufacturing filtered.

Product Images For CD3 Monoclonal Antibody (17A2), eFluor 660, eBioscience™

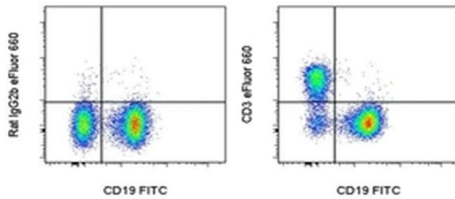


CD3 Antibody (50-0032-82) in IHC (F)

Immunohistochemistry of frozen mouse spleen stained with 10 µg/mL Anti-Mouse CD3 eFluor® 660 and costained with 10 µg/mL Anti-Human/Mouse CD45R (B220) Alexa Fluor® 488. Nuclei are stained with DAPI (right).

CD3 Antibody (50-0032-82) in Flow

Staining of BALB/c splenocytes with Anti-Mouse CD19 FITC (Product # 11-0193-82) and 0.125 µg of Rat IgG2b K Isotype Control eFluor® 660 (Product # 50-4031-82) (left) or 0.125 µg of eFluor® 660 Anti-Mouse CD3 eFluor® 660 (right). Total viable cells were used for analysis.



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Flow Cytometry (22)

mSphere

Microbiota Reconstitution Does Not Cause Bone Loss in Germ-Free Mice.

"Published figure using CD3 monoclonal antibody (Product # 50-0032-82) in Flow Cytometry"

Authors: Quach D,Collins F,Parameswaran N,McCabe L,Britton RA

Species
Not Applicable

Dilution
Not Cited

Year
2019

Nature communications

CD4⁺ T cells are activated in regional lymph nodes and migrate to skin to initiate lymphedema.

"Published figure using CD3 monoclonal antibody (Product # 50-0032-82) in Flow Cytometry"

Authors: García Nores GD,Ly CL,Cuzzone DA,Kataru RP,Hespe GE,Torrisi JS,Huang JJ,Gardenier JC,Savetsky IL,Nitti MD,Yu JZ,Rehal S,Mehrara BJ

Species
Not Applicable

Dilution
Not Cited

Year
2018

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

Immunofluorescence (6)

Cell research

The RNA-binding protein ROD1/PTBP3 cotranscriptionally defines AID-loading sites to mediate antibody class switch in mammalian genomes.

Authors: Chen J,Cai Z,Bai M,Yu X,Zhang C,Cao C,Hu X,Wang L,Su R,Wang D,Wang L,Yao Y,Ye R,Hou B,Yu Y,Yu S,Li J,Xue Y

Species
Mouse

Dilution
Not Cited

Year
2018

The Journal of experimental medicine

Characterization of meningeal type 2 innate lymphocytes and their response to CNS injury.

"Published figure using CD3 monoclonal antibody (Product # 50-0032-82) in Immunofluorescence"

Authors: Gadani SP,Smirnov I,Smith AT,Overall CC,Kipnis J

Species
Mouse
Not Applicable

Dilution
1:300
Not Cited

Year
2017

[View more IF references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (6) ICC (1) IHC (F) (1)

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