

# CD3 Monoclonal Antibody (17A2), FITC, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Fungi, Rat, Bacteria, Fish, Mouse
Host/Isotope	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	17A2
Conjugate	FITC
Form	Liquid
Concentration	0.5 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_2572431

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	61 Publications
Immunocytochemistry (ICC)	10 µg/mL	2 Publications
Immunofluorescence (IF)	10 µg/mL	4 Publications
Immunohistochemistry (Frozen) (IHC (F))	10 µg/mL	-
Immunohistochemistry (IHC)	-	2 Publications
T-Cell Activation (TCA)	-	1 Publication
Western Blot (WB)	-	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.

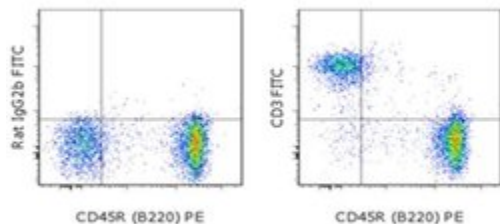
**Applications Tested:** This 17A2 antibody has been tested by flow cytometric analysis of mouse splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10<sup>5</sup> to 10<sup>8</sup> cells/test. This 17A2 antibody has 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.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

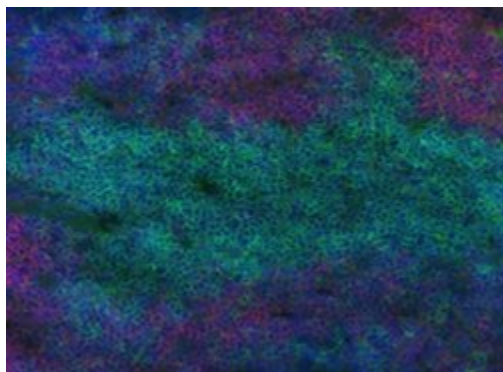
Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD3 Monoclonal Antibody (17A2), FITC, eBioscience™



### CD3 Antibody (11-0032-82) in Flow

Staining of C57Bl/6 splenocytes with Anti-Human/Mouse CD45R (B220) PE (Product # 12-0452-82) and 0.125 µg of Rat IgG2b K Isotype Control FITC (Product # 11-4031-82) (left) or 0.125 µg of Anti-Mouse CD3 FITC (right). Total viable cells were used for analysis.



### CD3 Antibody (11-0032-82) in IHC (F)

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

[View more figures on thermofisher.com](http://thermofisher.com)

## Flow Cytometry (61)

## NPJ vaccines

**Targeting of the *Yersinia pestis* F1 capsular antigen by innate-like B1b cells mediates a rapid protective response against bubonic plague.**

Authors: Levy Y, Vagima Y, Tidhar A, Aftalion M, Gur D, Nili U, Chittlaru T, Zauberman A, Mamroud E

**Species**  
Mouse

**Dilution**  
Not Cited

**Year**  
2020

## Journal for immunotherapy of cancer

**MDM2 inhibitor APG-115 synergizes with PD-1 blockade through enhancing antitumor immunity in the tumor microenvironment.**

"Published figure using CD3 monoclonal antibody (Product # 11-0032-82) in Flow Cytometry"

Authors: Fang DD, Tang Q, Kong Y, Wang Q, Gu J, Fang X, Zou P, Rong T, Wang J, Yang D, Zhai Y

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2019

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

## Immunocytochemistry (2)

## The Journal of clinical investigation

**Targeted delivery of immune therapeutics to lymph nodes prolongs cardiac allograft survival.**

"Published figure using CD3 monoclonal antibody (Product # 11-0032-82) in Immunofluorescence"

Authors: Bahmani B, Uehara M, Jiang L, Ordikhani F, Banouni N, Ichimura T, Solhjou Z, Furtmüller GJ, Brandacher G, Alvarez D, von Andrian UH, Uchimura K, Xu Q, Vohra I, Yilmam OA, Haik Y, Azzi J, Kasinath V, Bromberg JS, McGrath MM, Abdi R

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2018

## Cell proliferation

**Diet-induced obesity causes visceral, but not subcutaneous, lymph node hyperplasia via increases in specific immune cell populations.**

"Published figure using CD3 monoclonal antibody (Product # 11-0032-82) in Immunocytochemistry"

Authors: Magnuson AM, Regan DP, Fouts JK, Booth AD, Dow SW, Foster MT

**Species**  
Not Applicable

**Dilution**  
Not Cited

**Year**  
2017

## More applications with references on thermofisher.com

[IF \(4\)](#) [WB \(1\)](#) [TCA \(1\)](#) [IHC \(2\)](#)

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