

# CD3 Monoclonal Antibody (17A2), eFluor™ 660, 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), eFluor™ 660, eBioscience™ |
| Class                       | Monoclonal  |
| Type                        | Antibody  |
| Clone                       | 17A2  |
| Conjugate                   | eFluor™ 660   |
| Excitation/Emission Max     | 651/668 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_10598657   |

| Applications                              | Tested Dilution | Publications    |
|---|-----------------|-----------------|
| Western Blot (WB)                         | -               | 1 Publication   |
| Immunohistochemistry (IHC)                | -               | 17 Publications |
| Immunohistochemistry (Paraffin) (IHC (P)) | -               | 1 Publication   |
| Immunohistochemistry (Frozen) (IHC (F))   | 10 µg/mL        | 3 Publications  |
| Immunocytochemistry (ICC/IF)              | 10 µg/mL        | 4 Publications  |
| Flow Cytometry (Flow)                     | 0.25 µg/test    | 61 Publications |
| T-Cell Activation (TCA)                   | -               | 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 10<sup>5</sup> to 10<sup>8</sup> cells/test. This 17A2

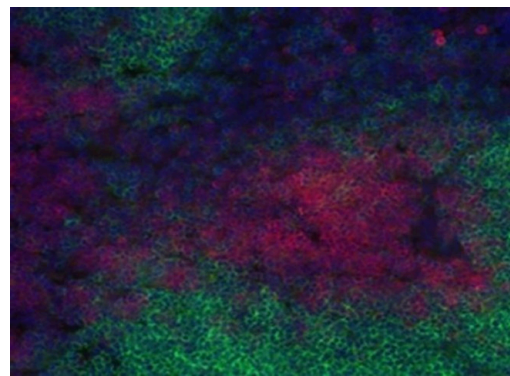
antibody has also been tested by immunohistochemistry on frozen mouse spleen and can be used at less than or equal to 10 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

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.

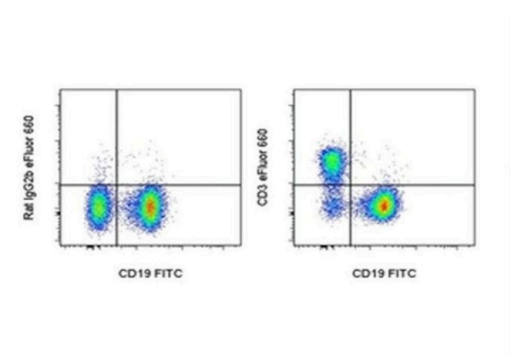
Excitation: 633-647 nm; Emission: 668 nm; Laser: Red Laser.

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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Western Blot (1)

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| <p>The Journal of clinical investigation</p> <p><b>Targeted delivery of immune therapeutics to lymph nodes prolongs cardiac allograft survival.</b></p> <p>"Published figure using CD3 monoclonal antibody (Product # 50-0032-82) in Western Blot"</p> <p>Authors: Bahmani B,Uehara M,Jiang L,Ordikhani F,Banouni N,Ichimura T,Solhjoui 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</p> | <p>Year</p> <p>2018</p> |
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Immunohistochemistry (17)

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|---|--|
| <p>PLoS biology</p> <p><b>The activity of the aryl hydrocarbon receptor in T cells tunes the gut microenvironment to sustain autoimmunity and neuroinflammation.</b></p> <p>"Published figure using CD3 monoclonal antibody (Product # 50-0032-82) in Immunohistochemistry"</p> <p>Authors: Merchak AR,Cahill HJ,Brown LC,Brown RM,Rivet-Noor C,Beiter RM,Slogar ER,Olgun DG,Gaultier A</p> | <p>Year</p> <p>2023</p> <p>Species</p> <p>Mouse</p>                              |
| <p>Frontiers in immunology</p> <p><b>A single-cell atlas reveals the heterogeneity of meningeal immunity in a mouse model of Methyl CpG binding protein 2 deficiency.</b></p> <p>"Published figure using CD3 monoclonal antibody (Product # 50-0032-82) in Immunohistochemistry"</p> <p>Authors: Li H,Hu M,Huang Z,Wang Y,Xu Y,Deng J,Zhu M,Feng W,Xu X</p>                                 | <p>Year</p> <p>2023</p> <p>Species</p> <p>Mouse</p> <p>Dilution</p> <p>1:200</p> |

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

Immunohistochemistry (Paraffin) (1)

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| <p>Clinical and translational medicine</p> <p><b>Functional inhibition of lactate dehydrogenase suppresses pancreatic adenocarcinoma progression.</b></p> <p>"Published figure using CD3 monoclonal antibody (Product # 50-0032-82) in Immunohistochemistry (Paraffin)"</p> <p>Authors: Cheng CS,Tan HY,Wang N,Chen L,Meng Z,Chen Z,Feng Y</p> | <p>Year</p> <p>2021</p> |
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More applications with references on thermofisher.com

- IHC (F) (3)
- ICC/IF (4)
- Flow (61)
- TCA (1)

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