

# CD3 Monoclonal Antibody (17A2), Alexa Fluor™ 488, eBioscience™

Product Details	
Size	25 µg
Species Reactivity	Mouse
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Alexa Fluor™ 488, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	17A2
Conjugate	Alexa Fluor™ 488
Excitation/Emission Max	499/520 nm
Form	Liquid
Concentration	0.5 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_2848413

Applications	Tested Dilution	Publications
Western Blot (WB)	-	1 Publication
Immunohistochemistry (IHC)	-	11 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	-	4 Publications
Flow Cytometry (Flow)	0.5 µg/test	54 Publications
Functional Assay (FN)	-	1 Publication

## Product Specific Information

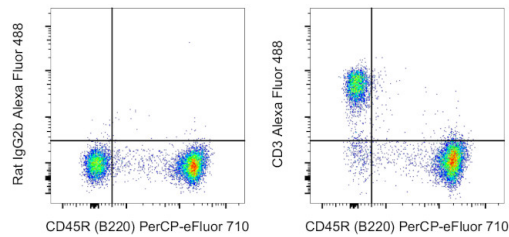
**Description:** The 17A2 monoclonal antibody reacts with the mouse CD3 complex. CD3 subunits gamma, delta and epsilon are required for proper assembly, trafficking and surface expression of the TCR complex. CD3 is expressed by thymocytes in a developmentally regulated manner and by all mature T cells. 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 may 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 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.

Excitation: 488 nm; Emission: 519 nm; Laser: Blue Laser

Product Images For CD3 Monoclonal Antibody (17A2), Alexa Fluor™ 488, eBioscience™



**CD3 Antibody (53-0032-80) in Flow**  
C57BL/6 mouse splenocytes were stained with CD45R (B220) Monoclonal Antibody, PerCP-eFluor 710 (Product # 46-0452-82) and 0.25 µg of Rat IgG2b kappa Isotype Control, Alexa Fluor 488 (Product # 53-4031-80) (left) or 0.25 µg of CD3 Monoclonal Antibody, Alexa Fluor 488 (right). Cells in the lymphocyte gate were used for analysis.

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Western Blot (1)

<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 # 53-0032-82) in Immunocytochemistry"</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 (11)

<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 # 53-0032-82) 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>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 # 53-0032-82) 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>

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

Immunohistochemistry (Paraffin) (1)

<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 # 53-0032-82) 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) (2)
- ICC/IF (4)
- Flow (54)
- FN (1)

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