

CD3 Monoclonal Antibody (17A2), Alexa Fluor™ 700, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Mouse
Published Species	Mouse, Human
Host/Isotype	Rat / IgG2b, kappa
Recommended Isotype Control	Rat IgG2b kappa Isotype Control (eB149/10H5), Alexa Fluor™ 700, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	17A2
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_529507

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	14 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	2 Publications
Immunocytochemistry (ICC/IF)	-	5 Publications
Flow Cytometry (Flow)	0.25 µg/test	90 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.

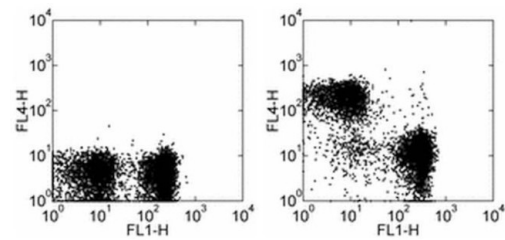
Applications Tested: This 17A2 antibody has been tested by flow cytometric analysis of mouse thymocyte and splenocyte suspensions. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 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 CD3 Monoclonal Antibody (17A2), Alexa Fluor™ 700, eBioscience™



CD3 Antibody (56-0032-82) in Flow
Staining of C57BL/6 splenocytes with Anti-Human/Mouse CD45R (B220) FITC (Product # 11-0452-82) and staining buffer (autofluorescence) (left) or 0.125 µg of Anti-Mouse CD3 Alexa Fluor® 700 (right). Cells in the lymphocyte gate were used for analysis.

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Immunohistochemistry (14)

<p>PLoS biology</p> <p>The activity of the aryl hydrocarbon receptor in T cells tunes the gut microenvironment to sustain autoimmunity and neuroinflammation.</p> <p>"Published figure using CD3 monoclonal antibody (Product # 56-0032-82) 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>A single-cell atlas reveals the heterogeneity of meningeal immunity in a mouse model of Methyl CpG binding protein 2 deficiency.</p> <p>"Published figure using CD3 monoclonal antibody (Product # 56-0032-82) 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>Functional inhibition of lactate dehydrogenase suppresses pancreatic adenocarcinoma progression.</p> <p>"Published figure using CD3 monoclonal antibody (Product # 56-0032-82) 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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Immunohistochemistry (Frozen) (2)

<p>Frontiers in immunology</p> <p>Developmental Dysfunction of the Central Nervous System Lymphatics Modulates the Adaptive Neuro-Immune Response in the Perilesional Cortex in a Mouse Model of Traumatic Brain Injury.</p> <p>"Published figure using CD3 monoclonal antibody (Product # 56-0032-82) in Immunohistochemistry (Frozen)"</p> <p>Authors: Wojciechowski S,Virenque A,Vihma M,Galbardi B,Rooney EJ,Keuters MH,Antila S,Koistinaho J,Noe FM</p>	<p>Year</p> <p>2021</p>
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More applications with references on thermofisher.com

- ICC/IF (5)
- Flow (90)
- TCA (1)

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