

CD3 Monoclonal Antibody (17A2), eBioscience™

Product Details

Size	100 µg
Species	Mouse
Published Species	Artificial Control, Fish, Mouse, Human
Expression System	Rat / IgG2b, kappa
Class	Monoclonal
Type	Antibody
Clone	17A2
Conjugate	Unconjugated
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
RRID	AB_467053

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.25 µg/test	92 Publications
Functional Assay (FN)	Assay-Dependent	15 Publications
Immunohistochemistry (Frozen) (IHC (F))	Assay-Dependent	4 Publications
ELISA (ELISA)	-	2 Publications
Immunocytochemistry (ICC)	-	4 Publications
Immunofluorescence (IF)	-	5 Publications
Immunohistochemistry (IHC)	-	13 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
In vitro Assay (IV)	-	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication
Neutralization (Neu)	-	1 Publication
T-Cell Activation (TCA)	-	2 Publications
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: The 17A2 antibody has been reported for use in flow cytometric analysis. It has also been reported in in vitro activation of mouse T cells. (Please use Functional Grade purified 17A2, cat. 16-0032, in functional assays).

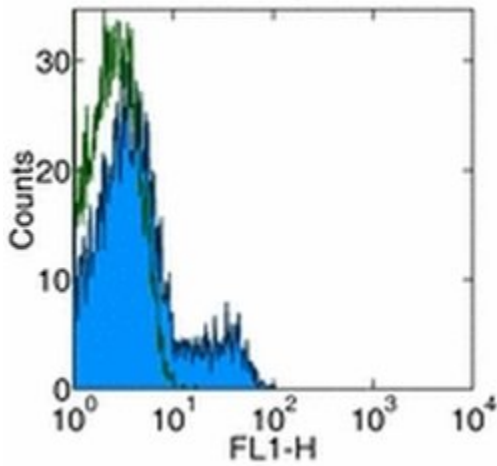
Applications Tested: This 17A2 antibody has been tested by flow cytometric analysis of mouse thymocytes and splenocytes. This can be used at less than or equal to 0.25 µg per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

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



CD3 Antibody (14-0032-82) in Flow

Staining of mouse thymocytes with Anti-Mouse CD3 Purified followed by Anti-Rat IgG FITC (Product # 11-4811-85). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

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

Functional Assay (15)

Clinical and translational allergy

The efficacy of oral and subcutaneous antigen-specific immunotherapy in murine cow's milk- and peanut allergy models.

"14-0032 was used in Functional assays to compare oral immunotherapy and subcutaneous immunotherapy models for cows milk and peanut allergy."

Authors: Vonk MM,Wagenaar L,Pieters RHH,Knippels LMJ,Willemsen LEM,Smit JJ,van Esch BCAM,Garssen J

Species
Mouse

Dilution
Not Cited

Year
2020

eLife

Stimulation of hair follicle stem cell proliferation through an IL-1 dependent activation of T-cells.

"14-0032 was used in Functional assays to analyse the signalling components responsible for epithelial stem cell proliferation."

Authors: Lee P,Gund R,Dutta A,Pincha N,Rana I,Ghosh S,Witherden D,Kandyba E,MacLeod A,Kobiela K,Havran WL,Jamora C

Species
Mouse
Not Applicable

Dilution
1:100
Not Cited

Year
2017

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

Flow Cytometry (92)

Frontiers in immunology

The Transcription Factor T-Bet Is Regulated by MicroRNA-155 in Murine Anti-Viral CD8⁺ T Cells *via* SHIP-1.

"14-0032 was used in Flow cytometry/Cell sorting to show that the proliferative effect of miR-155 on CD8⁺T cells is mediated by T-bet. T-bet levels in CTL were controlled in vivo by miR-155 via SH2 (Src homology 2)-containing inositol phosphatase-1 (SHIP-1), a known direct target of miR-155, and SHIP-1 directly downregulated T-bet."

Authors: Hope JL,Stairiker CJ,Spantidea PI,Gracias DT,Carey AJ,Fike AJ,van Meurs M,Brouwers-Haspels I,Rijsbergen LC,Fraietta JA,Mueller YM,Klop RC,Stelekati E,Wherry EJ,Erkeland SJ,Katsikis PD

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 # 14-0032-82) 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](#)

More applications with references on thermofisher.com

IHC (13) ICC (4) IF (5) WB (1) Misc (1) TCA (2) IHC (F) (4) IHC (P) (1) Neu (1) ELISA (2)
IV (1)

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