

# TdT Monoclonal Antibody (19-3), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Mouse
Host/Isotype	Mouse / IgG2b, kappa
Recommended Isotype Control	Mouse IgG2b kappa Isotype Control (eBMG2b), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	19-3
Conjugate	PE
Excitation/Emission Max	565/576 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_1963620

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	2 Publications

## Product Specific Information

**Description:** This 19-3 monoclonal antibody recognizes human and mouse terminal-deoxynucleotidyl transferase (TdT), a 60 kDa polymerase responsible for the template-independent addition of N-nucleotides at gene segment junctions of developing lymphocytes. Expression is found in the nucleus of immature lymphocytes but not in mature lymphocytes or non-lymphoid cells. Tdt plays a critical role during TCR and Ig gene rearrangement. Regulation of expression in the mouse thymus correlates with T cell selection; decreased or absent after positive selection. Additionally Tdt has been shown to be present in lymphoma or lymphoblastic leukemia cells.

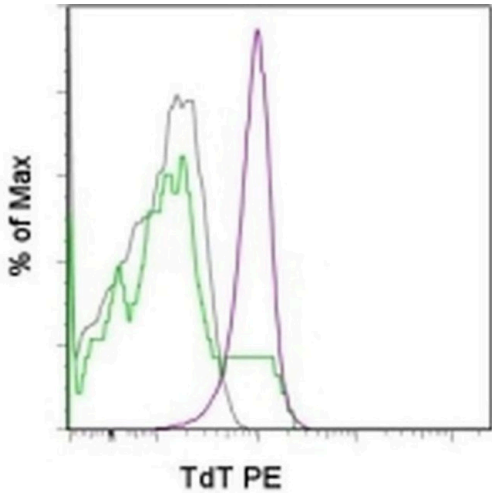
**Applications Reported:** This 19-3 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

**Applications Tested:** This 19-3 antibody has been tested by intracellular staining using the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5521) followed by flow cytometric analysis of mouse thymocytes. This can 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:** 488-561 nm; **Emission:** 578 nm; **Laser:** Blue Laser, Green Laser, Yellow-Green Laser.

**Filtration:** 0.2 µm post-manufacturing filtered.

Product Images For TdT Monoclonal Antibody (19-3), PE, eBioscience™



**TdT Antibody (12-5846-82) in Flow**  
Staining of C57BL/6 thymocytes with Anti-Mouse CD4 FITC (Product # 11-0041-82) and Anti-Mouse CD8a PerCP-Cy5-5 (Product # 45-0081-82) followed by fixation and permeabilization with the Foxp3 Staining Buffers (Product # 00-5523-00) and subsequent staining with 0.25 µg of Anti-Mouse TdT PE. CD4 single positives are shown in gray, CD8 single positives in green and double positives in purple.

2 References

Flow Cytometry (2)

eLife	Year 2021
<b>The mitochondrial iron transporter ABCB7 is required for B cell development, proliferation, and class switch recombination in mice.</b>	
"Published figure using TdT monoclonal antibody (Product # 12-5846-82) in Flow Cytometry"	
Authors: Lehrke MJ,Shapiro MJ,Rajcula MJ,Kennedy MM,McCue SA,Medina KL,Shapiro VS	

Scientific reports	Year 2016
<b>V(D)J recombination process and the Pre-B to immature B-cells transition are altered in Fanca<sup>-/-</sup> mice.</b>	Species Mouse
"12-5846 was used in Flow cytometry/Cell sorting to determine the impact of the FANC pathway on the immunoglobulin diversification process."	
Authors: Nguyen TV,Pawlikowska P,Firlej V,Rosselli F,Aoufouchi S	

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