

TOX Monoclonal Antibody (TXRX10), eFluor™ 660, eBioscience™

Product Details

Size	100 µg
Species Reactivity	Human, Mouse
Published Species	Human, Mouse
Host/Isotype	Rat / IgG2a, kappa
Recommended Isotype Control	Rat IgG2a kappa Isotype Control (eBR2a), eFluor™ 660, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	TXRX10
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_2574265

Applications	Tested Dilution	Publications
Immunohistochemistry (IHC)	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	5 Publications

Product Specific Information

Description: This TXRX10 monoclonal antibody reacts with human and mouse TOX, which is also known as Thymocyte selection-associated HMG box protein. This DNA-binding nuclear factor is expressed in thymocytes, T lymphocytes, NK cells, and lymphoid tissue-inducer (LTi) cells. TOX expression in thymocytes is upregulated during beta-selection and positive selection. Studies using Tox knockout mice have demonstrated a critical role for TOX in CD4+ T cell development as a regulator of the CD4loCD8lo to CD4+CD8lo transition. Moreover, TOX has been shown to be involved in the development of NK and LTi cells. While its regulation remains unclear, TOX expression has been shown to be induced by calcineurin-mediated TCR signaling in thymocytes during positive selection.

Applications Reported: This TXRX10 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This TXRX10 antibody has been tested by intracellular staining and flow cytometric analysis of mouse thymocytes using the Foxp3/Transcriptin Factor Buffer Set (cat 00-5523) and protocol. Refer to Best Protocols- (refer to Protocol B: One-step protocol for intracellular (nuclear) proteins). This can be used at less than or equal to 1 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.

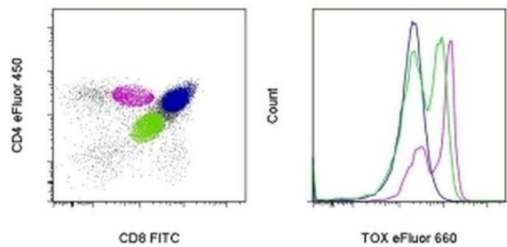
eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm).

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 TOX Monoclonal Antibody (TXRX10), eFluor™ 660, eBioscience™



TOX Antibody (50-6502-82) in Flow
C57Bl/6 thymocytes were stained with Anti-Mouse CD4 eFluor® 450 (Product # 48-0042-82) and Anti-Mouse CD8a FITC (Product # 11-0081-82), followed by intracellular staining with 0.5 µg of Anti-Human/Mouse TOX eFluor® 660 using the Foxp3/Transcription Factor Buffer Set (Product # 00-5523-00) and protocol. The histogram (right) demonstrates staining of TOX on CD4+CD8+ (blue histogram), CD4loCD8lo (green histogram), and CD4+CD8lo (purple histogram) thymocytes. Cell populations were gated as indicated on the dot plot (left). Cells in the lymphocyte gate were used for analysis.

6 References

Immunohistochemistry (1)

Frontiers in cellular neuroscience	Year 2020
Differential Neural Responses Underlying the Inhibition of the Startle Response by Pre-Pulses or Gaps in Mice.	Species Mouse
"50-6502 was used in Immunohistochemistry to demonstrate that the inhibition of the ASR by pre-pulses or gaps is orchestrated by different neural pathways."	
Authors: Moreno-Paublete R,Canlon B,Cederroth CR	

Flow Cytometry (5)

Advanced materials (Deerfield Beach, Fla.)	Year 2022
Manipulating Offense and Defense Signaling to Fight Cold Tumors with Carrier-Free Nanoassembly of Fluorinated Prodrug and siRNA.	Species Human
"50-6502-82 was used in flow cytometry to develop a new kind of carrier-free nanoparticle to simultaneously deliver chemotherapeutic drug (doxorubicin, DOX), cytolytic peptide (melittin, MPI), and anti-TOX small interfering RNA (thymocyte selection-associated high mobility group box protein, TOX) using a fluorinated prodrug strategy."	
Authors: Wu P,Zhang H,Sun M,Mao S,He Q,Shi Y,Deng Y,Dong Z,Xu Q,Zhao C,Zhang W,Sun B	

iScience	Year 2022
Functional assessment of the cell-autonomous role of NADase CD38 in regulating CD8 ⁺ T cell exhaustion.	
"Published figure using TOX monoclonal antibody (Product # 50-6502-82) in Flow Cytometry"	
Authors: Ma K,Sun L,Shen M,Zhang X,Xiao Z,Wang J,Liu X,Jiang K,Xiao-Feng Qin F,Guo F,Zhang B,Zhang L	

[View more Flow references on thermofisher.cn](#)

More applications with references on thermofisher.cn

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