

T-bet Monoclonal Antibody (eBio4B10 (4B10)), PE, eBioscience™

Product Details	
Size	100 µg
Species Reactivity	Human, Mouse, Rhesus monkey
Published Species	Mouse, Human, Rhesus monkey
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), PE, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	eBio4B10 (4B10)
Conjugate	PE
Form	Liquid
Concentration	0.2 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin
Contains	0.09% sodium azide
Storage conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_925761

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	0.5 µg/test	64 Publications

Product Specific Information

Description: The eBio4B10 monoclonal antibody reacts with mouse, rhesus monkey and human T-bet. T-bet is a Th1-specific T-box transcription factor critical to the development of the Th1 CD4+ T cell lineage. This is known based on the observations that T-Bet deficient mice have impaired Th1 cell development, and that ectopic expression of T-Bet results in development skewed to the Th1 lineage. T-Bet expression is induced by the Th1 cytokine IFN gamma, and T-Bet also regulates the expression of IFN gamma, likely, at least in part, through the modification of DNA accessibility and histone remodeling. In addition to IFN gamma, T-Bet is also known to regulate the expression of IL-12R beta and IL-2. Moreover, T-Bet plays a role in class-switch recombination in B-cells.

Applications Reported: This eBio4B10 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested: This eBio4B10 antibody has been tested by intracellular staining and flow cytometric analysis of normal human peripheral blood cells using the Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5523) and protocol. This antibody 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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

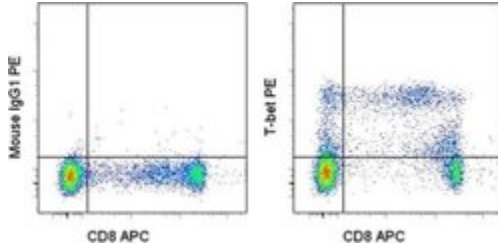
For intracellular staining with the eBio4B10 monoclonal antibody, it is recommended to use the eBioscience Foxp3/Transcription Factor Staining Buffer Set (cat. 00-5523) and protocol. Please refer to Best Protocols: Protocol B: One step protocol for

intracellular (nuclear) proteins).

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 T-bet Monoclonal Antibody (eBio4B10 (4B10)), PE, eBioscience™



T-bet Antibody (12-5825-82) in Flow

Intracellular staining of normal human peripheral blood cells with Anti-Human CD8a APC (Product # 17-0086-42) and 0.25 µg of Mouse IgG1 K Isotype Control PE (Product # 12-4714-81) (left) or 0.25 µg of Anti-Human/Mouse T-bet PE (right) using the Foxp3 Fixation/Permeabilization Buffers (Product # 00-5521-00). Cells in the lymphocyte gate were used for analysis.

64 References

Flow Cytometry (64)

Nature communications

IL-21 and IFN therapy rescues terminally differentiated NK cells and limits SIV reservoir in ART-treated macaques.

"12-5825 was used in Flow cytometry/Cell sorting to generate terminally differentiated blood natural killer cells (NKG2a⁺/clowCD16⁺) with potent human leukocyte antigen-E-restricted activity in response to SIV envelope peptides."

Authors: Harper J, Huot N, Micci L, Tharp G, King C, Rascole P, Shenvi N, Wang H, Galardi C, Upadhyay AA, Villinger F, Lifson J, Silvestri G, Easley K, Jacquelin B, Bosinger S, Müller-Trutwin M, Paiardini M

Species

Rhesus monkey

Dilution

Not Cited

Year

2021

Cell reports. Medicine

Heterologous arenavirus vector prime-boost overrules self-tolerance for efficient tumor-specific CD8 T cell attack.

"12-5825-82 was used in Flow Cytometry to establish an arenavirus-based immunotherapy regimen that allows reshuffling of immunodominance hierarchies and breaking self-directed tolerance for efficient tumor control."

Authors: Bonilla WV, Kirchhammer N, Marx AF, Kallert SM, Krzyzaniak MA, Lu M, Darbre S, Schmidt S, Raguz J, Berka U, Vincenti I, Pauzuolis M, Kerber R, Hoepner S, Günther S, Magnus C, Merkler D, Orlinger KK, Zippelius A, Pinschewer DD

Species

Mouse

Dilution

Not Cited

Year

2021

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

More applications with references on thermofisher.com

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