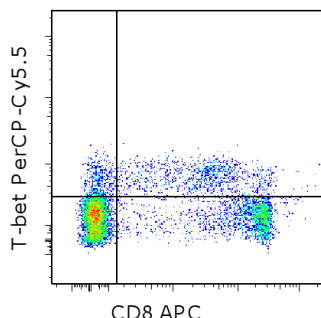


Anti-Human/Mouse T-bet PerCP-Cyanine5.5

Catalog Number: 45-5825

Also known as: Th1-specific T box transcription factor, T-box expressed in T cells

RUO: For Research Use Only. Not for use in diagnostic procedures.



Intracellular staining of normal human peripheral blood cells with Anti-Human CD8a APC (cat. 17-0086) and 0.125 ug of Anti-Human/Mouse T-bet PerCP-Cyanine5.5 using the Foxp3 Fixation/Permeabilization Buffers (cat. 00-5523). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human/Mouse T-bet PerCP-Cyanine5.5

Catalog Number: 45-5825

Clone: eBio4B10 (4B10, 4-B10)

Concentration: 0.2 mg/mL

Host/Isotype: Mouse IgG1

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide

Description

The eBio4B10 monoclonal antibody reacts with mouse 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. This antibody 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.

For intracellular staining with the eBio4B10 monoclonal antibody, it is recommended to use the Foxp3 Staining Buffer Set (cat. 00-5523) and protocol. Please click here for Staining Protocol (refer to Protocol B: One step protocol for intracellular (nuclear) proteins).

References

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Usui T, Preiss JC, Kanno Y, Yao ZJ, Bream JH, O'Shea JJ, Strober W. T-bet regulates Th1 responses through essential effects on GATA-3 function rather than on IFNG gene acetylation and transcription. *J Exp Med.* 2006 Mar 20;203(3):755-66.

Hwang ES, Hong JH, Glimcher LH. IL-2 production in developing Th1 cells is regulated by heterodimerization of RelA and T-bet and requires T-bet serine residue 508. *J Exp Med.* 2005 Nov 7;202(9):1289-300.

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Szabo SJ, Kim ST, Costa GL, Zhang X, Fathman CG, Glimcher LH. A novel transcription factor, T-bet, directs Th1 lineage commitment. *Cell.* 2000 Mar 17;100(6):655-69. (**4B10**, FC, WB, PubMed)

Related Products

00-5521 Foxp3 Fixation/Permeabilization Concentrate and Diluent

00-5523 Foxp3 / Transcription Factor Staining Buffer Set

17-0086 Anti-Human CD8a APC (OKT8 (OKT-8))

17-5773 Anti-Mouse/Rat Foxp3 APC (FJK-16s)

45-4714 Mouse IgG1 K Isotype Control PerCP-Cyanine5.5 (P3.6.2.8.1)

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