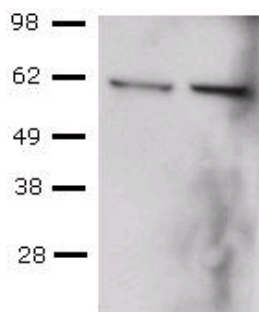


Anti-T-bet Purified

Catalog Number: 14-5824

Also Known As: Tbet, Th1-specific T box transcription factor, T-box expressed in T cells


RUO: For Research Use Only



CD4+ T cells were sorted from mouse splenocytes, then activated with Anti-Mouse CD3 and Anti-Mouse CD28, followed by culture in Th1-polarizing conditions, and re-stimulation with PMA and Ionomycin. Lysates from control (left) or PMA and Ionomycin-re-stimulated (right) cells were probed with Anti-T-bet Purified at 2 µg/ml, and revealed with Anti-Mouse IgG HRP.

Product Information

Contents: Anti-T-bet Purified


 Catalog Number: 14-5824


Clone: eBio39D (39D, 3-9D)


Concentration: 0.5 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.

 Batch Code: Refer to Vial

 Use By: Refer to Vial

 Caution, contains Azide

Description

The eBio39D monoclonal antibody reacts with mouse, rat 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-γ, and T-Bet also regulates the expression of IFN-γ, likely, at least in part, through the modification of DNA accessibility and histone remodeling. In addition to IFN-γ, T-Bet is also known to regulate the expression of IL-12Rβ and IL-2. Moreover, T-Bet plays a role in class-switch recombination in B-cells.

Applications Reported

This eBio39D (39D, 3-9D) antibody has been reported for use in immunoprecipitation, and immunoblotting (WB).

Applications Tested

This eBio39D (39D, 3-9D) antibody has been tested by western blot analysis of Th1-polarized mouse CD4+ T cells and can be used at 2 µg/ml as a starting dilution for western blotting.

References

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.

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.

Related Products

14-4714 Mouse IgG1 K Isotype Control Purified

14-5825 Anti-Human/Mouse T-bet Purified (eBio4B10 (4B10, 4-B10))

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