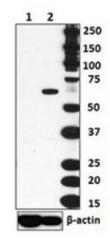
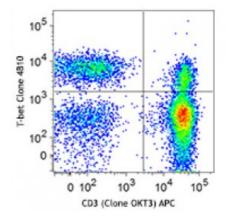
## **Product Data Sheet**

## **Purified anti-T-bet**

Catalog # / Size:	3824010 / 100 μg 3824005 / 25 μg
Clone:	4B10
Isotype:	Mouse IgG1, к
<b>Reactivity:</b>	Human,Mouse
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Concentration:</b>	0.5



Total cell lysate from PBMC (lane 1, 15 microg) and PBMC treated with 5 microg/mL CD3 and 2 microg/mL CD28 (lane 2, 15 microg) were resolved by electrophoresis (4-12% Bis-Tris), transferred to nitrocellulose, and probed with purified anti-T-bet a



Human peripheral blood lymphocytes were surface stained with CD3 (clone OKT3) APC and then treated with True-Nuclear™ Transcription Factor Buffer Set. The cells were then stained with purified T-bet (clone 4B10) followed by antimouse IgG1 PE.

Application	1. Szabo SJ, <i>et al.</i> 2000. <i>Cell</i> 100:655. (ICFC, WB)
<b>References:</b>	2. Hwang ES, et al. 2005. J. Exp. Med. 202:1289. (ICFC, WB, IP)
	3. Neurath MF, <i>et al.</i> 2002. <i>J. Exp. Med.</i> 195:1129. (IF)

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## **Applications:**

**Applications:** 

Application

Notes:

Usage:

Recommended

Other

Each lot of this antibody is quality

control tested . For Western blotting,

microg per million cells in a staining

recommended that the reagent be

titrated for optimal performance for

immunofluorescence microscopy3.

Factor Buffer Set (Cat. No. 424401)

offers improved staining and is highly recommended over the Foxp3 Fix/Perm Buffer Set (Cat. No. 421403) and the

Permeabilization Buffer Set (Cat. No.

Additional reported applications (for the

NOTE: For flow cytometric staining with

this clone, True-Nuclear<sup>™</sup> Transcription

volume of 100 microL. It is

relevant formats) include:

immunoprecipitation2 and

Nuclear Factor Fixation and

422601).

each application.

the suggested use is 1 to 2 ug per ml. For flow cytometric staining, the suggested use of this reagent is 1.0 **Description:** T-bet, also known as T-box transcription factor T-bet, is considered to be a "master regulator" of Th1 lymphoid development controlling the production of the cytokine IFN-γ. T-bet is widely expressed in hematopoietic cells including stem cells, NK cells, B cells, and T cells. T-bet is critical for the control of microbial pathogens, and knockout animals show multiple physiologic and inflammatory features characteristic of asthma. T-bet expression is optimally observed after IL-12 stimulation and can be suppressed by addition of the Th2 cytokine IL-4 or neutralization of IL-12.

Antigen	1. Szabo SJ, <i>et al.</i> 2000. <i>Cell</i> 100:655.
<b>References:</b>	2. Szabo SJ, <i>et al.</i> 2002. <i>Science</i> 295:338.
	3. Finotto S, et al. 2002. Science 295:336.

4. Mullen AC, et al. 2001. Science 292