

## PE anti-T-bet

**Catalog # / Size:** 644809 / 25 µg  
644810 / 100 µg

**Clone:** 4B10

**Isotype:** Mouse IgG1, κ

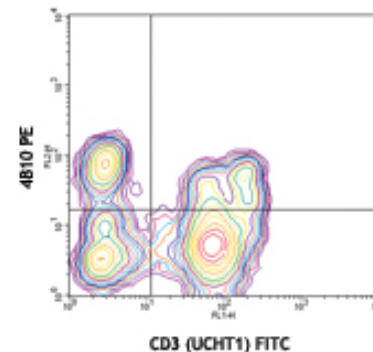
**Reactivity:** Human, Mouse

**Preparation:** The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

**Concentration:** 0.2 mg/ml

**Storage:** The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes surface stained with CD3 (UCHT1) FITC then intracellularly stained with 4B10 PE (top) or mIgG1,κ PE isotype control (bottom)

## Applications:

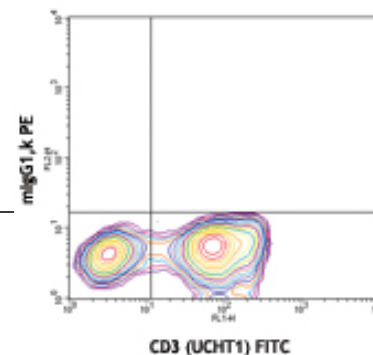
**Applications:** ICFC - *Quality tested*

**Recommended Usage:** Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is 1.0 µg per million cells in a staining volume of 100 µl. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Additional reported applications (for the relevant formats) include: immunoprecipitation<sup>2</sup> and immunofluorescence microscopy<sup>3</sup>.

**Application References:**

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



**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 References:**

1. Szabo SJ, *et al.* 2000. *Cell* 100:655.
2. Szabo SJ, *et al.* 2002. *Science* 295:338.
3. Finotto S, *et al.* 2002. *Science* 295:336.
4. Mullen AC, *et al.* 2001. *Science* 292:1907.

### Related Products:

**Product**  
 PE Mouse IgG1, κ Isotype Ctrl (FC)  
 RBC Lysis Buffer (10X)  
 Cell Staining Buffer

**Clone**  
 MOPC-21

**Application**  
 FC  
 FC, ICFC  
 FC, ICC, ICFC



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