

Product Data Sheet

Purified anti-T-bet

Catalog # / Size: 644801 / 25 µg
644802 / 100 µg

Clone: 4B10

Isotype: Mouse IgG1, κ

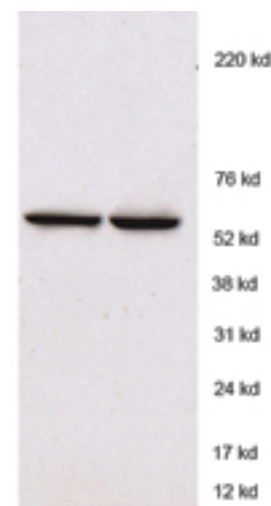
Reactivity: Human, Mouse

Preparation: The antibody was purified by affinity chromatography.

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

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C.



Human Th1 (left) and mouse Th1 (right) cell lysates were resolved by electrophoresis, transferred to nitrocellulose and probed with purified 4B10. Proteins were visualized using a HRP goat anti-mouse secondary antibody and a chemiluminescent system.

Applications:

Applications: WB, ICFC -Quality tested
IF, IP

Recommended Usage: Each lot of this antibody is quality control tested by Western blotting and intracellular immunofluorescent staining with flow cytometric analysis. For Western blotting, the suggested use is 1 to 2 µg per ml. 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: immunoprecipitation² and immunofluorescence microscopy³.

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)
4. Hsieh CY, *et al.* 2012. *J Pharmacol Exp.* 343:125. PubMed.

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
 Fixation Buffer
 Permeabilization Wash Buffer (10X)
 HRP Goat anti-mouse IgG (minimal x-reactivity)
 AKP Goat anti-mouse IgG (minimal x-reactivity)

Clone

Poly4053
 Poly4053

Application

ICC, ICFC
 ICC, ICFC, IHC
 ELISA, IHC, WB
 ELISA, WB, IHC



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