

Product Data Sheet

PerCP/Cy5.5 anti-T-bet

Catalog # / Size: 644805 / 25 µg
644806 / 100 µg

Clone: 4B10

Isotype: Mouse IgG1, κ

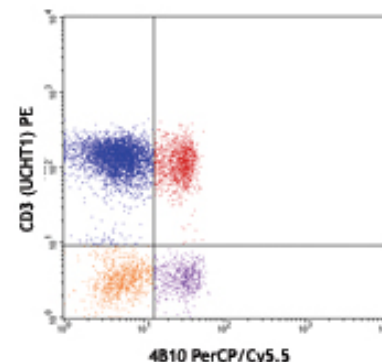
Reactivity: Human, Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with PerCP/Cy5.5 under optimal conditions. The solution is free of unconjugated PerCP/Cy5.5 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.



PMA/ionomycin-stimulated (6 hours)
human peripheral blood lymphocytes
intracellularly stained with CD3 PE
(UCHT1) and 4B10 PerCP/Cy5.5

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 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.

Cy3, Cy5, Cy5.5 and Cy7 are subject to proprietary rights of GE Healthcare Bio-Sciences Corp. and Carnegie Mellon University and made and sold under license from GE Healthcare Bio-Sciences Corp. Sale of this product is licensed for research use only.

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
Cell Staining Buffer
PerCP/Cy5.5 Mouse IgG1, κ Isotype Ctrl
RBC Lysis Buffer (10X)

Clone

MOPC-21

Application

FC, ICC, ICFC
FC, ICFC
FC, ICFC



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