

## Anti-Human/Mouse Tbet-160Gd

**Catalog #:** 3160010B

**Package Size:** 100 tests

**Storage:** Store product at 4°C. Do not freeze.

**Cross Reactivity:** Mouse, Human

**Clone:** 4B10

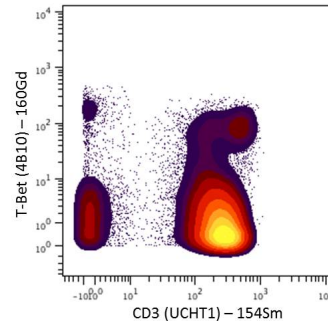
**Isotype:** Mouse IgG1

**Formulation:** Antibody stabilizer with 0.05% Sodium Azide

### Technical Information

**Validation:** Each lot of conjugated antibody is quality control tested by CyTOF® analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

**Recommended Usage:** The suggested use is 1 µl for up to 3 X 10<sup>6</sup> live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMCs were fixed, permeabilized, and stained with 154Sm-anti-CD3 (UCHL1) and 160Gd-anti-T-Bet (4B10).

### Description

T-bet (Tbx-21) is a transcription factor bearing a T-box DNA-binding domain, and is considered a "master-regulator" of the Th1 CD4+ T cell subset. T-bet was initially described as a potent transactivator that can promote IFN $\gamma$  production by initiating Th1 lineage development from naïve CD4+ T cells. T-bet specifies Th1 cell fate by initiating chromatin/histone remodeling of the IFN $\gamma$  gene and by inducing IL-12 receptor  $\beta$ 2 expression. T-bet also promotes the Th1 phenotype by actively suppressing Th2 differentiation by interfering with GATA-3 binding to its target DNA. In addition to T cells, T-bet is also expressed in B cells where it plays a role in class-switch recombination.

### References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Ornatsky, O. I., et al. Highly multiparametric analysis by mass cytometry. *J Immunol Methods* 361 (1-2):1-20, 2010.

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