

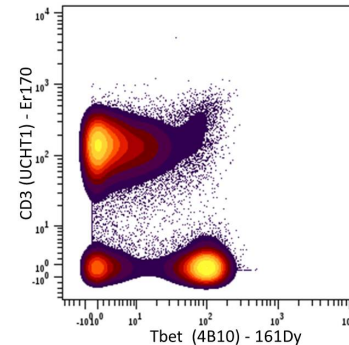
Anti-Human/Mouse Tbet-161Dy

Catalog: 3161014B	Clone: 4B10
Package Size: 100 tests	Isotype: IgG1
Storage: Store product at 4°C. Do not freeze.	Formulation: Antibody stabilizer with 0.05% Sodium Azide
Reactivity: Human/Mouse	

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 10⁶ 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 170Er-anti-CD3 (UCHT1) and 161Dy-anti-Tbet (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 γ 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 γ gene and by inducing IL-12 receptor β 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.

For technical support visit fluidigm.com/support

EMAIL **United States and other countries not in Europe or Asia** techsupport@fluidigm.com **Europe** techsupporteurope@fluidigm.com | **Asia** techsupportasia@fluidigm.com
 PHONE **United States (toll-free)** +1 866 358 4354 | **Europe** +33 1 60 92 42 40 | **Japan** +81 3 3662 2150 | **China** +86 21 3255 8368 | **All other countries** +1 650 266 6100

For Research Use Only. Not for use in diagnostic procedures.

This product contains antibodies supplied by eBioscience

Information in this publication is subject to change without notice. **Safety data sheet information** fluidigm.com/sds **Patent and license information** fluidigm.com/legalnotices | Fluidigm, the Fluidigm logo, and CyTOF are trademarks or registered trademarks of Fluidigm Corporation in the United States and/or other countries. © 2015 Fluidigm Corporation. All rights reserved. 01/2015