

# Anti-Human TCR $\alpha$ / $\beta$ -176Yb

Catalog: 3176015B

Package Size: 100 tests

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

Reactivity: Human

Clone: IP26

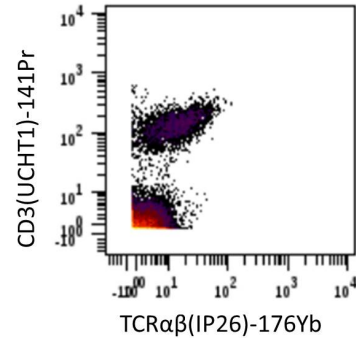
Isotype: IgG1

Formulation: Antibody stabilizer with 0.05% Sodium Azide

## Technical Information

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

**Recommended Usage:** The suggested use is 1  $\mu$ l for up to  $3 \times 10^6$  live cells in 100  $\mu$ l. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMCs stained with 176Yb-anti-TCR $\alpha$  $\beta$ (IP26) and 141Pr-anti-CD3(UCHT1). Total viable cells are displayed in the analysis.

## Description

The IP26 antibody reacts specifically with the  $\alpha$ / $\beta$  T-cell receptor, which is expressed on greater than 95% of normal peripheral blood CD3+ T cells. The  $\alpha$ / $\beta$  TCR recognizes a peptide bound to the MHC. The T cell antigen receptor (TCR) recognizes foreign antigens and translates such recognition events into intracellular signals, which lead to T cell activation. CD3 chains and the CD4 or CD8 co-receptors are also required for efficient signal transduction through the TCR. The TCR is expressed on both T helper and T cytotoxic cells that can be distinguished by their expression of CD4 and CD8. T helper cells express CD4 proteins and T cytotoxic cells display CD8.

## 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](http://fluidigm.com/support)

#### EMAIL

United States support.northamerica@fluidigm.com | Europe support.europe@fluidigm.com  
 Asia techsupportasia@fluidigm.com | Latin America techsupportlatam@fluidigm.com  
 All other countries techsupport@fluidigm.com

#### PHONE

United States (toll-free) +1 866 358 4354 | Europe +33 1 60 92 42 40  
 Japan +81 3 3662 2150 | China (excluding Hong Kong) +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 manufactured by and sold under license from BioLegend and licensees thereof.

Information in this publication is subject to change without notice. **Safety data sheet information** [fluidigm.com/sds](http://fluidigm.com/sds) **Patent and license information** [fluidigm.com/legalnotices](http://fluidigm.com/legalnotices) | Fluidigm, the Fluidigm logo, Cell-ID, CyTOF, and Maxpar are trademarks or registered trademarks of Fluidigm Corporation in the United States and/or other countries. All other trademarks are the sole property of their respective owners. © 2015 Fluidigm Corporation. All rights reserved. 06/2015