

# Anti-Human IL-13-169Tm

Catalog: 3169016B

Package size: 100 tests

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

Clone: JES10-5A2

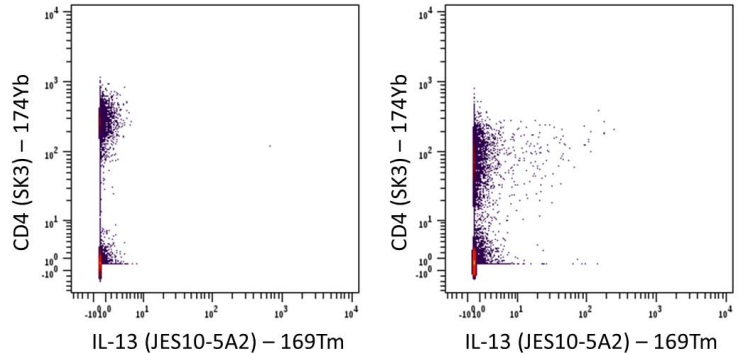
Isotype: Rat IgG1

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 µL for up to 3 × 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 incubated for 6 hours in media alone (left) or with PMA and ionomycin (right) in the presence of monensin and brefeldin A. Cells were then fixed, permeabilized and stained with 174Yb-anti-CD4 (SK3) and 169Tm-anti-IL-13 (JES10-5A2). CD3+CD20- T cells are displayed in the analysis.

## Description

The JES10-5A2 antibody binds specifically to human IL-13, an immunoregulatory cytokine produced by activated Th0, Th1 and Th2 lymphocytes. IL-13 is a nonglycosylated protein with a molecular weight of 12 kDa. The IL-13 gene is located in the same region as the genes encoding IL-3, IL-4, IL-5 and GM-CSF. IL-13 shares 30% amino acid sequence homology with IL-4 and can induce similar processes. IL-13 has a diverse range of biological effects including suppression of macrophage cytotoxic activity, up-regulation of IL-1RA expression, suppression of proinflammatory cytokine secretion (IL-1, IL-6, TNF-alpha and IL-8) and prolonging survival of human monocytes. IL-13 is produced by activated CD4+ and CD8+ T cells, but it is expressed in its membrane-bound form primarily on CD4+ T cells.

## 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 (2009): 6,813–22.

Ornatsky, O. I., et al. Highly Multiparametric Analysis by Mass Cytometry. *Journal of Immunological Methods* 361 (2010): 1–20.

**For technical support visit [www.fluidigm.com/support](http://www.fluidigm.com/support).**

**North America** +1 650 266 6100 | Toll-free: +1 866 358 4354 (US/CAN) | [support.northamerica@fluidigm.com](mailto:support.northamerica@fluidigm.com) **Europe** +44 1223 859941 | [support.europe@fluidigm.com](mailto:support.europe@fluidigm.com)

**China (excluding Hong Kong)** +86 21 3255 8368 | [techsupportchina@fluidigm.com](mailto:techsupportchina@fluidigm.com) **Japan** +81 3 3662 2150 | [techsupportjapan@fluidigm.com](mailto:techsupportjapan@fluidigm.com)

**All other Asian countries** +1 650 266 6100 | [techsupportasia@fluidigm.com](mailto:techsupportasia@fluidigm.com) **Central and South America** +1 650 266 6100 | [techsupportlatam@fluidigm.com](mailto:techsupportlatam@fluidigm.com)

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

This product contains antibodies manufactured by and sold under license from BioLegend<sup>®</sup> and licensees thereof.

Information in this publication is subject to change without notice. **Safety data sheet information:** [www.fluidigm.com/sds](http://www.fluidigm.com/sds). **Patent and license information:** [www.fluidigm.com/legalnotices](http://www.fluidigm.com/legalnotices).

**EU's WEEE directive information:** [www.fluidigm.com/compliance](http://www.fluidigm.com/compliance). Fluidigm, the Fluidigm logo, and CyTOF are trademarks or registered trademarks of Fluidigm Corporation in the United States and/or other countries. © 2016 Fluidigm Corporation. All rights reserved. 12/2016