# Anti-Human IL-13-169Tm

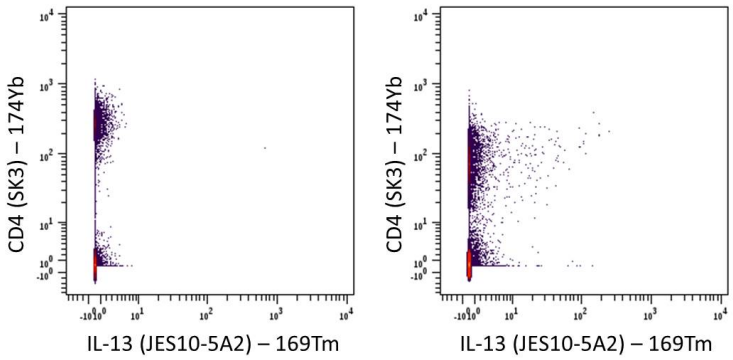
Catalog: 3169016B
Package size: 100 tests
Storage: Store product at 4 °C. Do not freeze.

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® 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 $10^6$ 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.

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