

Anti-Human IL-4-142Nd

Catalog: 3142002B

Package Size: 100 tests

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

Reactivity: Rhesus, Porcine,

Clone: MP4-25D2

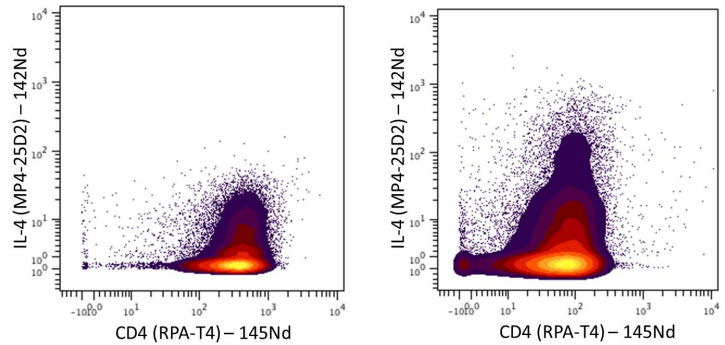
Isotype: IgG1

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 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human Th2-polarized CD4+ T cells were incubated for 5 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 145Nd anti-CD4 (RPA-T4) and 142Nd anti-IL-4 (MP4-25D2).

Description

Interleukin-4 (IL-4) is a cytokine that plays a role in allergy and immunity. It is primarily produced by activated CD4+ T cells, mast cells and eosinophils. IL-4 stimulates TH2 cell development by activating the transcription factor STAT6, which ultimately results in enhancing expression of the cytokines IL-4, IL-5, IL-10 and IL-13. IL-4 can also regulate the production of IgE and IgG1 by B 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* 81:6813-6822, 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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