

## Anti-Mouse IL-4-166Er

**Catalog #:** 3166003B

**Package Size:** 100 tests

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

**Cross Reactivity:** Mouse

**Clone:** 11B11

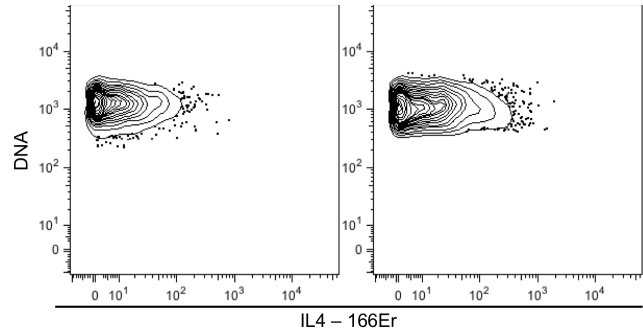
**Isotype:** Rat IgG1

**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 X 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.



C57BL/6 mouse splenocytes were incubated for 20 hours in media alone (left) or with LPS (right) in the presence of monensin and brefeldin A. Cells were then fixed, permeabilized, and stained with 166Er-anti-IL4 (11B11). Monocytes are displayed in the analysis.

### 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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