**Anti-Human IL-21-172Yb**

Catalog: 3172011B  
Package Size: 100 tests  
Storage: Store product at 4°C. Do not freeze.  
Reactivity: Rhesus

Clone: 3A3-N2  
Isotype: Mouse IgG1  
Formulation: Antibody stabilizer with 0.05% Sodium Azide

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**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.

**Description**

IL-21 is a type I cytokine and a member of the family of cytokines, along with IL-2, IL-4, IL-7, IL-9 and IL-15, that utilize the common cytokine receptor gamma chain (γc) as part of their receptor complex. IL-21 is expressed predominantly by CD4+ T cells, and binds to the IL-21 receptor (IL-21R), expressed on lymphohematopoietic cells including NK cells, T cells, B cells, monocytes, macrophages and dendritic cells. Binding of IL-21 exerts a diverse array of biological effects including increased CD4+ and CD8+ T cell proliferation, augmented function of CD8+ T cells and NK cells, promotion of IL-17-secreting Th17 cells and enhancement of B cell activation and plasma cell differentiation. The effects of IL-21 on B cells is due partially to its autocrine activity on follicular helper T cells (TFH), CD4+ T cells that produce large amounts of IL-21 and are critical to the development and function of germinal centers. Furthermore, it is thought that IL-21 plays a role in the development of pathogenic autoantibodies in systemic lupus erythematosus (SLE) and rheumatoid arthritis (RA).

**References**


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For technical support visit fluidigm.com/support

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