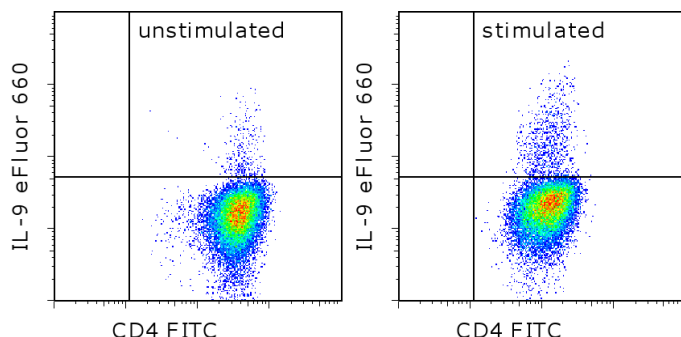


Anti-Human IL-9 eFluor® 660 (Alexa® 647 Replacement)

Catalog Number: 50-7097

Also known as: Interleukin-9

RUO: For Research Use Only. Not for use in diagnostic procedures.



Th9-polarized human peripheral blood cells were cultured for 5 hours with Protein Transport Inhibitor Cocktail (cat. 00-4980) (left) or were stimulated with Cell Stimulation Cocktail (plus protein transport inhibitors) (cat. 00-4975) (right). Cells were then stained intracellularly with Anti-Human CD4 FITC (cat. 11-0049) and Anti-Human IL-9 eFluor® 660. Cells were fixed and permeabilized with IC Fixation Buffer (cat. 00-8222) and Permeabilization Buffer (10X) (cat. 00-8333). Cells in the lymphocyte gate were used for analysis.

Product Information

Contents: Anti-Human IL-9 eFluor® 660 (Alexa® 647 Replacement)

Catalog Number: 50-7097

Clone: MH9A4

Concentration: 5 µL (0.06 µg)/test

Host/Isotype: Mouse IgG2b, kappa

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer

Temperature Limitation: Store at 2-8°C. Do not freeze. Light-sensitive material.

Batch Code: Refer to vial

Use By: Refer to vial

Contains sodium azide

Description

The monoclonal antibody MH9A4 recognizes interleukin-9 (IL-9), a proinflammatory cytokine historically believed to be involved in type 2 immune responses. Recent evidence suggests IL-9 may instead be secreted by a distinct T-helper lineage called Th9. These cells can be derived from Th2 cells with TGF beta or differentiated directly from naïve CD4+ T cells with TGF beta and IL-4.

IL-9 is a member of the common cytokine receptor gamma chain-dependent family of cytokines which also includes IL-2, IL-4, IL-7, IL-15 and IL-21. Its pleiotropic effects on Th2 lymphocytes, B lymphocytes, mast cells, eosinophils and gut and airway epithelial cells have implicated IL-9 in asthma and other allergy-related disorders. Staining with the MH9A4 antibody is not blocked by the MH9D1 antibody, suggesting that the two antibodies bind to unique epitopes.

Applications Reported

This MH9A4 antibody has been reported for use in intracellular staining followed by flow cytometric analysis.

Applications Tested

This MH9A4 antibody has been pre-titrated and tested by intracellular staining and flow cytometric analysis of stimulated human peripheral blood cells. This can be used at 5 µL (0.06 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

eFluor® 660 is a replacement for Alexa Fluor® 647. eFluor® 660 emits at 659 nm and is excited with the red laser (633 nm). Please make sure that your instrument is capable of detecting this fluorochrome.

References

Veldhoen M, Uyttenhove C, van Snick J, Helmby H, Westendorf A, Buer J, Martin B, Wilhelm C, Stockinger B. Transforming growth factor-beta 'reprograms' the differentiation of T helper 2 cells and promotes an interleukin 9-producing subset. Nat Immunol. 2008 Dec;9(12):1341-6.

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Jenmalm MC, Van Snick J, Cormont F, Salman B. Allergen-induced Th1 and Th2 cytokine secretion in relation to specific allergen sensitization and atopic symptoms in children. Clin Exp Allergy. 2001 Oct;31(10):1528-35.

Renauld JC, Houssiau F, Louahed J, Vink A, Van Snick J, Uyttenhove C. Interleukin-9. Adv Immunol. 1993;54:79-97.

Related Products

00-4975 Cell Stimulation Cocktail (plus protein transport inhibitors) (500X)

00-4980 Protein Transport Inhibitor Cocktail (500X)

00-8222 IC Fixation Buffer

00-8333 Permeabilization Buffer (10X)

11-0049 Anti-Human CD4 FITC (RPA-T4)

50-4301 Rat IgG1 K Isotype Control eFluor® 660