

APC Rabbit anti-Human/Monkey IL-17A mAb

Catalog No.: A27825

Basic Information

Observed MW**Calculated MW**

18kDa

Category

Primary antibody

Applications

FC (intra)

Cross-Reactivity

Human, Cynomolgus

CloneNo number

ARC70526

Conjugate

APC. Ex:650nm. Em:660nm.

Background

This gene is a member of the IL-17 receptor family which includes five members (IL-17RA-E) and the encoded protein is a proinflammatory cytokine produced by activated T cells. IL-17A-mediated downstream pathways induce the production of inflammatory molecules, chemokines, antimicrobial peptides, and remodeling proteins. The encoded protein elicits crucial impacts on host defense, cell trafficking, immune modulation, and tissue repair, with a key role in the induction of innate immune defenses. This cytokine stimulates non-hematopoietic cells and promotes chemokine production thereby attracting myeloid cells to inflammatory sites. This cytokine also regulates the activities of NF-kappaB and mitogen-activated protein kinases and can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). IL-17A plays a pivotal role in various infectious diseases, inflammatory and autoimmune disorders, and cancer. High levels of this cytokine are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis. The lung damage induced by the severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) is to a large extent, a result of the inflammatory response promoted by cytokines such as IL17A.

Recommended Dilutions

FC (intra) 5 µl per 10⁶ cells in 100 µl volume

Immunogen Information

Gene ID

Hu 3605 /Cyno 101926546

Swiss Prot

Q16552

Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

Synonyms

IL17; CTLA8; IL-17; ILA17; CTLA-8; IL-17A

Contact

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Product Information

Source

Rabbit

Isotype

IgG

Purification

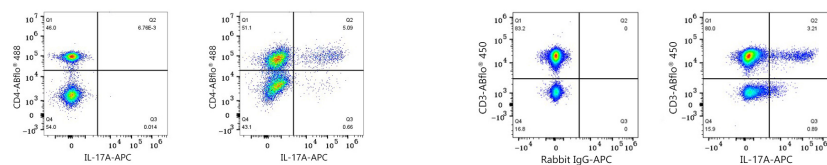
Affinity purification

Storage

Store at 2-8°C. Avoid freeze.

Buffer: PBS with 0.09% Sodium azide, 0.2% BSA, pH7.3.

Validation Data



Flow cytometry: 1×10^6 Human PBMC (untreated, left) and Th17-polarized Human PBMC (treated with 50 ng/ml PMA + 1 μ g/ml Ionomycin + 1 μ g/ml Brefeldin A for 6 hours, right) were surface-stained with ABflo® 488 Rabbit anti-Human/Monkey CD4 mAb (A22773, 5 μ l/Test), then intracellularly-stained APC Rabbit anti-Human IL-17A mAb (A27825, 5 μ l/Test).

Flow cytometry: 1×10^6 Cynomolgus PBMC (treated with 50 ng/mL PMA and 1 μ g/mL Ionomycin for 4-6 hours in the presence of monensin) were surface-stained with ABflo® 450 Rabbit anti-Human/Monkey CD3 mAb (A27177, 5 μ l/Test) and then intracellularly-stained with APC Rabbit IgG isotype control (A24173, 5 μ l/Test, left) or APC Rabbit anti-Human/Monkey IL-17A mAb (A27825, 5 μ l/Test, right). Cells in the lymphocyte gate were used for analysis.