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Technical Data Sheet

Anti-Human IL-17A APC

Catalog Number :73821-80

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

Product Information

Clone: 64DEC17

Format/Conjugate: APC

Concentration: 5 uL (0.06 ug)/test

Reactivity: Human

Laser: Red (635 -655nm)

Peak Emission: 660nm

Peak Excitation: 650nm

Filter: 660/20

Brightness (1=dim,5=brightest): 5

Isotype: Mouse IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The 64DEC17 monoclonal antibody specifically binds to human IL-17A, a pro-inflammatory cytokine. It is produced by T helper 17 (Th17) cells, a unique subset of IL-23 dependent CD4+ T cells. Interleukin-17A is highly expressed in transplant rejection, asthma, psoriasis, and multiple sclerosis, and enhances the expression of ICAM-1 in human fibroblasts. The homodimer is expressed by activated peripheral CD4+ T lymphocytes. The Interleukin-17A binds to the IL-17 receptors (IL-17R) expressed by mast cells, monocytes and macrophages, fibroblasts, and endothelial and epithelial cells. The 64DEC17 is a neutralizing antibody.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

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2. Chung, B. H., Kim, K. W., Sun, I. O., Choi, S. R., Park, H. S., Jeon, E. J., ... Cho, M. L. (2012). Increased interleukin-17 producing effector memory T cells in the end-stage renal disease patients.;Immunology letters,;141(2), 181-189.

3. Sakuraba, A., Sato, T., Kamada, N., Kitazume, M., Sugita, A., Hibi, T. (2009). Th1/Th17 immune response is induced by mesenteric lymph node dendritic cells in Crohn's disease.;Gastroenterology,;137(5), 1736-1745.

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