

## Anti-Human IL-17A PE

Catalog Number :73821-60

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

### Product Information

**Clone:** 64DEC17

**Format/Conjugate:** PE

**Concentration:** 5 uL (0.25 ug)/test

**Reactivity:** Human

**Laser:** Blue (488nm), Yellow/Green (532-561nm)

**Peak Emission:** 578nm

**Peak Excitation:** 496nm

**Filter:** 585/40

**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

1. Ren, Y., Yang, B., Yin, Y., Leng, X., Jiang, Y., Zhang, L., ... Zhang, X. (2014). Aberrant CD200/CD200R1 expression and its potential role in Th17 cell differentiation, chemotaxis and osteoclastogenesis in rheumatoid arthritis.; *Rheumatology*, 53(6), 1062-1071.
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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