

Anti-Mouse/Rat IL-17A FITC

Catalogue Number : 73812-50

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

Product Information

Clone: 17B7

Format/Conjugate: FITC

Concentration: 0.5 mg/mL

Reactivity: Mouse, Rat

Laser: Blue (488nm)

Peak Emission: 520nm

Peak Excitation: 494nm

Filter: 530/30

Brightness (1=dim,5=brightest): 3

Isotype: Rat IgG2a, 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 17B7 monoclonal antibody specifically binds to mouse and rat 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.

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. For flow cytometric staining, the suggested use of this reagent is ≤0.25 ug per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

References

1. Wu, S., Rhee, K. J., Albesiano, E., Rabizadeh, S., Wu, X., Yen, H. R., ... ; Sears, C. L. (2009). A human colonic commensal promotes colon tumorigenesis via activation of T helper type 17 T cell responses. *Nature medicine*, 15(9), 1016-1022.
2. Cao, H., Lan, Q., Shi, Q., Zhou, X., Liu, G., Liu, J., ... ; Liu, Z. (2011). Anti-IL-23 antibody blockade of IL-23/IL-17 pathway attenuates airway obliteration in rat orthotopic tracheal transplantation. *International immunopharmacology*, 11(5), 569-575.
3. Yan, S., Wang, L., Liu, N., Wang, Y., ; Chu, Y. (2012). Critical role of interleukin-17/interleukin-17 receptor axis in mediating Con A-induced hepatitis. *Immunology and cell biology*, 90(4), 421-428.