

## Anti-Mouse/Rat IL-17A FITC

Catalog 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.