

## **Product Data Sheet**

## APC anti-mouse/human IL-5

Catalog # / Size: 504305 / 25 µg

504306 / 100 µg

Clone: TRFK5 **Isotype:** Rat lgG1,  $\kappa$ 

Immunogen: Partially-purified T cell clone supernatant

Reactivity: Mouse, Human, Cross-Reactivity\*: Guinea Pig

Preparation: The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions. The

solution is free of unconjugated APC and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. Do not

freeze.

## **Applications:**

**Application References:** 

Applications: ICFC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric

analysis. For immunofluorescent staining, the suggested use of this reagent is ≤1.0 µg per million cells in 100 µl

volume. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: ELISA<sup>1,3,4</sup> or ELISPOT<sup>2,6</sup> Capture: The purified TRFK5 antibody is useful as a capture antibody for a sandwich

ELISA or ELISPOT assay, when used in conjunction with biotinylated TRFK4 antibody (Cat. No. 504402) as the detection antibody for mouse IL-5, or used in conjunction with biotinylated JES1-5A10 antibody (Cat. No. 501002/501005) as the detection antibody for human IL-5. The LEAF™ purified antibody is suggested for ELISPOT

Flow Cytometry<sup>5</sup>: The fluorochrome-labeled TRFK5 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IL-5-producing cells within mixed cell populations. For intracellular cytokine

staining protocol, please visit www.biolegend.com and click on the support section.

Neutralization<sup>1,9</sup>: The LEAF™ purified antibody (Endotoxin <0.1 EU/μg, Azide-Free, 0.2 μm filtered) is recommended for neutralization of mouse and human IL-5 bioactivity (Cat. No. 504308).

Additional reported applications (for the relevant formats) include: Western blotting, immunohistochemical staining of formalin-fixed paraffin-embedded tissue sections<sup>8</sup> and paraformaldehyde-fixed, saponin-treated frozen tissue sections<sup>7</sup>, and immunocytochemistry.

Note: For testing human IL-5 in serum or plasma, BioLegend's ELISA Max™ Sets (Cat. No. 430401 to 430406) are specially developed and recommended. For testing mouse IL-5 in serum, plasma or supernatant, BioLegend's ELISA

Max™ Sets (Cat. No. 431201 to 431206) are specially developed and recommended.

1. Abrams, J. 1995. Curr. Prot. Immunol. John Wiley and Sons, New York. Unit 6.20.

2. Klinman, D., et al. 1994. Curr. Prot. Immunol. John Wiley and Sons, New York. Unit 6.19.

3. Swain, S., et al. 1990. J. Immunol. 145:3796. 4. Abrams, J., et al. 1992. Immunol. Rev. 127:5.

5. Assenmacher, M., et al. 1994. Eur. J. Immunol. 24:1097.

6. Karulin, A., et al. 2000. J. Immunol. 164:1862.

7. Andersson, U., et al. 1999. Detection and quantification of gene expression. New York:Springer-Verlag. 8. Fan, W. Y., et al. 2001. Exp. Biol. Med. 226:1045. 9. Sitkauskiene, B., et al. 2005. Respir Res. 6:33.

**Description:** IL-5 is a homodimeric, disulphide-linked protein produced by T-cells. Monomeric human IL-5 is a 126 amino acid protein with a reported molecular weight of 26 kD for the homodimeric protein. Mouse and human IL-5 are \_\_\_\_ approximately 70% identical. IL-5 has been shown to promote the growth of immature hematopoietic BFU-E progenitors, stimulate the activation and differentiation of eosinophils, and promote the generation of cytotoxic lymphocytes. Mouse IL-5 induces the differentiation and proliferation of pre-activated B-cells and stimulates the production and secretion of IgM and IgA by B-cells stimulated with bacterial endotoxin. The TRFK5 antibody can

neutralize the bioactivity of natural or recombinant IL-5.

Antigen References: 1. Fitzgerald, K., et al. Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego.

Takatsu, K., et al. 1988. Immunol. Rev. 102:107.
 Takatsu, K. 1992. Curr. Opin. Immunol. 4:299.

4. Takatsu, K. 1991. Microbiol. Immunol. 35:593.

**Related Products: Product** Clone

Cell Staining Buffer

For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible



**Application** 

FC, ICC, ICFC



for patent infringement or other violations that may occur with the use of our products.

Fixation Buffer
Permeabilization Wash Buffer (10X)
Brefeldin A Solution (1,000X)
Monensin Solution (1,000X)
RBC Lysis Buffer (10X)
APC Rat IgG1, κ Isotype Ctrl

ICC, ICFC
ICC, ICFC, IHC
ICFC
ICFC
ICFC
FC, ICFC
RTK2071
FC, ICFC

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