SONY

Product Data Sheet

APC anti-mouse/human IL-5

Catalog # / Size:	3121530 / 100 µg 3121525 / 25 µg
Clone:	TRFK5
Isotype:	Rat IgG1, κ
Immunogen:	Partially-purified T cell clone supernatant
Reactivity:	Human
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

Applications:

Applications:	Flow Cytometry
Recommended Usage:	Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤1.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	**ELISA[1,3,4] or ELISPOT[2,6] 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 capture. **Flow Cytometry:** The fluorochrome-labeled TRFK51 antibody is useful for intracellular immunofluorescent staining and flow cytometric analysis to identify IL-5-producing cells within mixed cell populations. **Neutralization[1,9]:** The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of 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[8] and paraformaldehyde-fixed, saponin-treated frozen tissue sections[7], 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.
Application References:	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.
10. Wiesner DL, *et al.* 2015. *PLoS Pathog.* 11:1004701. PubMed

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