

Product Data Sheet

PE anti-human IL-5

Catalog # / Size: 500903 / 25 tests
500904 / 100 tests

Clone: JES1-39D10

Isotype: Rat IgG2a, κ

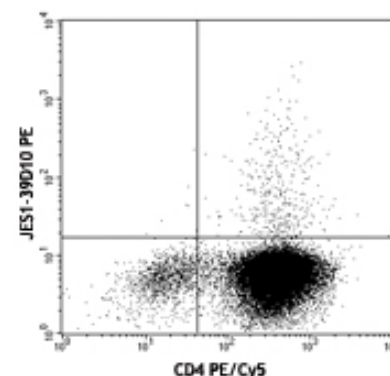
Immunogen: COS-expressed, recombinant human IL-5

Reactivity: Human, **Cross-Reactivity*:** Cynomolgus, Rhesus

Preparation: The antibody was purified by affinity chromatography, and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.

Formulation: μ g format: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Test format: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide, 0.2% (w/v) BSA (USA origin).

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



Enriched human CD4⁺ T cells were stimulated with PMA+ionomycin, then surface stained with CD4 PE/Cy5 and intracellular stained with JES1-39D10 PE

Applications:

Applications: ICFC - *Quality tested*

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: **ELISA¹⁻³ or ELISPOT⁴⁻⁶ Capture:** The purified JES1-39D10 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT, when used in conjunction with the biotinylated JES1-5A10 (Cat. No. 501002/501005) antibody as the detecting antibody. The LEAF™ purified antibody is suggested for ELISPOT capture.

Flow Cytometry⁷: The fluorochrome-labelled JES1-39D10 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.

Neutralization¹: The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for neutralization of human IL-4 bioactivity (Cat. No. 500907).

Additional reported applications (for the relevant formats) include: Western blotting, immunohistochemical staining^{8,9} of paraformaldehyde-fixed, saponin-treated frozen tissue sections, 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.

- Application References:**
1. Abrams, J., *et al.* 1992. *Immunol. Rev.* 127:5.
 2. Butterfield, J., *et al.* 1992. *Blood* 79:688.
 3. Abrams, J., *et al.* 1994. *Eosinophils in Allergy and Inflammation*. Marcel Dekker, New York. p.133.
 4. Klinman, D., *et al.* 1994. *Curr. Prot. Immunol.* John Wiley and Sons, New York. Unit 6.19.6.
 5. Mahanty, S., *et al.* 1992. *J. Immunol.* 148:3567.
 6. Limaye, A., *et al.* 1991. *J. Clin. Inv.* 88:1418.
 7. Prussin, C., *et al.* 1995. *J. Immunol. Meth.* 188:117.
 8. Andersson, U., *et al.* 1999. *Detection and quantification of gene expression*. New York:Springer-Verlag.
 9. Andersson, J., *et al.* 1994. *Immunology* 83:16.

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. The JES1-39D10 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. Takatsu, K. 1991. *Microbiol. Immun.* 35:593.

Related Products: Product
Cell Staining Buffer
Fixation Buffer

Clone

Application
FC, ICC, ICFC
ICC, ICFC



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Permeabilization Wash Buffer (10X)
RBC Lysis Buffer (10X)
Brefeldin A Solution (1,000X)
Monensin Solution (1,000X)
PE Rat IgG2a, κ Isotype Ctrl

RTK2758

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



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