

Product Data Sheet

LEAF™ Purified anti-human IL-5

Catalog # / Size: 500907 / 500 µg

Clone: JES1-39D10

Isotype: Rat IgG2a, κ

Immunogen: COS-expressed, recombinant human IL-5

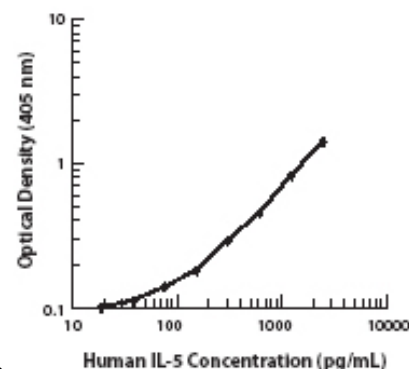
Reactivity: Human, **Cross-Reactivity*:** Cynomolgus, Rhesus

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Applications:

Applications: ELISA Capture - *Quality tested*
ELISPOT Capture, Neut, ICFC, IHC, WB - *Reported in the literature*

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For use as an ELISPOT capture antibody, a concentration range of 4-8 µg/ml is recommended. For ELISA capture applications, a concentration range of 1-4 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of IL-5 recombinant protein ranging from 500 to 4 pg/ml are recommended for each ELISA plate. It is recommended that the reagent be titrated for optimal performance for each application.

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/µg, Azide-Free, 0.2 µm 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
Biotin anti-human IL-5

Clone
JES1-5A10

Application
ELISA Detection, ELISPOT
Detection
BA, ELISA

Recombinant Human IL-5



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HRP Avidin
LEAF™ Purified Rat IgG2a, κ Isotype Ctrl

Avidin
RTK2758

ELISA, ELISPOT, IHC, WB
FC, ICFC, WB, IP, ICC, IF,
IHC, FA



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