

Product Data Sheet

Biotin anti-human IL-5

Catalog # / Size: 501002 / 500 µg

Clone: JES1-5A10

Isotype: Rat IgG2a, κ

Immunogen: COS-expressed, recombinant human IL-5

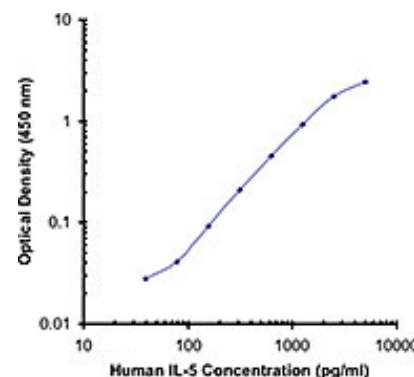
Reactivity: Human

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

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

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



Applications:

Applications: ELISA Detection, ELISPOT Detection

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For use as an ELISA detection antibody, a concentration range of 0.25-1.0 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of human IL-5 protein ranging from 250 to 1 pg/ml are recommended for each ELISA plate when paired with TRFK5 (Cat. # 504302). To obtain a linear standard curve, serial dilutions of human IL-5 protein ranging from 500 to 4 pg/ml are recommended for each ELISA plate when paired with JES1-39D10 (Cat. # 500902). For use as an ELISPOT detection antibody, a concentration range of 1-4 µg/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: **ELISA¹⁻⁴ or ELISPOT^{5,6} Detection:** The biotinylated JES1-5A10 antibody is useful as a detection antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with purified JES1-39D10 (Cat. No. 500902/500907) or TRFK5 (Cat. No. 504302/504308) antibody as the capture antibody. **Biotin-F(ab')** (Cat. No. 501005) is recommended for ELISA analysis of human serum and plasma samples, to prevent non-specific binding of interfering substances such as rheumatoid factor and heterophilic antibodies. Each lot of this antibody is quality control tested by ELISA assay.

Neutralization¹⁻³: 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. 501004).

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. Abrams, J., *et al.* 1994. *Eosinophils in Allergy and Inflammation*. Marcel Dekker, New York. p.133.
3. Butterfield, J., *et al.* 1991. *Blood* 79:688.
4. Limaye, A., *et al.* 1991. *J. Clin. Inv.* 88:1418.
5. Klinman, D., *et al.* 1994. *Curr. Prot. Immunol.* John Wiley and Sons, New York. Unit 6.19.
6. Mahanty, S., *et al.* 1992. *J. Immunol.* 148:3567.

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 JES1-5A10 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
LEAF™ Purified anti-human IL-5

Purified anti-human IL-5
Recombinant Human IL-5
HRP Avidin

TMB Substrate Reagent Set
ELISA Assay Diluent (5X)
Human IL-5 ELISA MAX™ Standard
Human IL-5 ELISA MAX™ Deluxe

Clone

JES1-39D10

JES1-39D10

Avidin

Application

ELISA Capture, ELISPOT
Capture, ICFC, IHC, Neut, WB
ELISA Capture, IHC, WB
BA, ELISA
ELISA, ELISPOT, IHC, WB
ELISA
ELISA
ELISA
ELISA



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