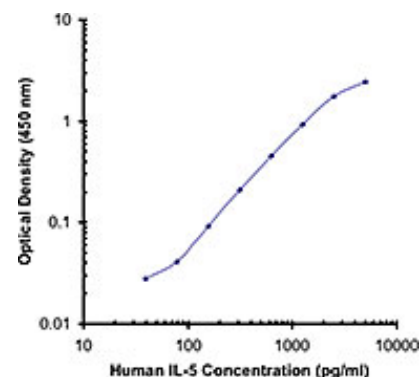


## Purified anti-human IL-5

**Catalog # / Size:** 500902 / 500 µg  
**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.  
**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.



## Applications:

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

**Recommended Usage:** Each lot of this antibody is quality control tested by ELISA assay. 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:** **ELISA<sup>1-3</sup> or ELISPOT<sup>4-6</sup> 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.  
**Neutralization<sup>1</sup>:** 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<sup>8,9</sup> 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:**

- Abrams, J., *et al.* 1992. *Immunol. Rev.* 127:5.
- Butterfield, J., *et al.* 1992. *Blood* 79:688.
- Abrams, J., *et al.* 1994. *Eosinophils in Allergy and Inflammation*. Marcel Dekker, New York. p.133.
- 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.
- Limaye, A., *et al.* 1991. *J. Clin. Inv.* 88:1418.
- Prussin, C., *et al.* 1995. *J. Immunol. Meth.* 188:117.
- Andersson, U., *et al.* 1999. *Detection and quantification of gene expression*. New York:Springer-Verlag.
- 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:**

- 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.
- Takatsu, K. 1991. *Microbiol. Immun.* 35:593.

Related Products:	Product	Clone	Application
	Biotin anti-human IL-5	JES1-5A10	ELISA Detection, ELISPOT
	Recombinant Human IL-5		Detection
	HRP Avidin	Avidin	BA, ELISA
	TMB Substrate Reagent Set		ELISA, ELISPOT, IHC, WB
	ELISA Assay Diluent (5X)		ELISA
	Human IL-5 ELISA MAX™ Standard		ELISA
	Human IL-5 ELISA MAX™ Deluxe		ELISA



For research use only. Not for diagnostic use. Not for resale. BioLegend will not be held responsible for patent infringement or other violations that may occur with the use of our products.



\*These products may be covered by one or more Limited Use Label Licenses (see the BioLegend Catalog or our website, [www.biollegend.com/ordering#license](http://www.biollegend.com/ordering#license)). BioLegend products may not be transferred to third parties, resold, modified for resale, or used to manufacture commercial products, reverse engineer functionally similar materials, or to provide a service to third parties without written approval of BioLegend. By use of these products you accept the terms and conditions of all applicable Limited Use Label Licenses. Unless otherwise indicated, these products are for research use only and are not intended for human or animal diagnostic, therapeutic or commercial use.