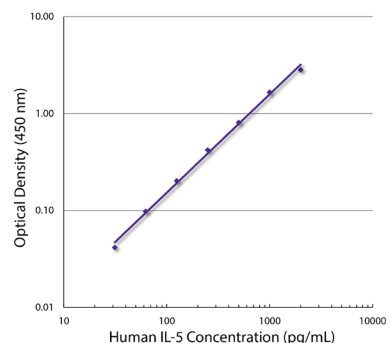




## Rat Anti-Human IL-5

Cat. No.	Format	Size
10119-01	Purified (UNLB)	0.5 mg
10119-08	Biotin (BIOT)	0.5 mg
10119-14	Low Endotoxin, Azide-Free (LE/AF)	0.5 mg



Standard curve generated with Rat Anti-Human IL-5-UNLB (SB Cat. No. 10118-01; Clone JES1-5A10) and Rat Anti-Human IL-5-BIOT (SB Cat. No. 10119-08; Clone JES1-39D10) followed by Streptavidin-HRP (SB Cat. No. 7100-05)

### Overview

<b>Clone</b>	JES1-39D10
<b>Isotype</b>	Rat IgG <sub>2a</sub> K
<b>Immunogen</b>	COS-expressed human IL-5
<b>Specificity</b>	Human IL-5
<b>Alternate Name(s)</b>	Interleukin-5, eosinophil differentiation factor, EDF, T cell replacing factor-1, TRF-1, eosinophil colony stimulating factor, Eo-CSF, B cell growth factor-2, BCGF-2, B cell differentiation factor for IgM, BCDF-m, IgA enhancing factor, IgA-EF

### Applications

ELISA-Capture – Quality tested <sup>1-7</sup>  
 ELISA-Detection – Quality tested  
 ELISPOT-Capture – Reported in literature <sup>4,8</sup>  
 FC – Reported in literature <sup>9,10</sup>  
 IHC-FS – Reported in literature <sup>11,12</sup>  
 ICC – Reported in literature <sup>9</sup>  
 Neut – Reported in literature <sup>1,3,13</sup>

### Working Dilutions

<b>ELISA</b>	Purified (UNLB) antibody	≤ 10 µg/mL
	BIOT conjugate	1:1,000 – 1:4,000
<b>Other Applications</b>	Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.	

**For Research Use Only. Not for Diagnostic or Therapeutic Use.**

## Handling and Storage

---

- The purified (UNLB) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. *No preservatives or amine-containing buffer salts added.* Store at 2-8°C.
- The biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaN<sub>3</sub>. Store at 2-8°C.
- The low endotoxin, azide-free (LE/AF) antibody is supplied as 0.5 mg purified immunoglobulin in 1.0 mL of PBS. Contains no preservative; handle under aseptic conditions. Store at 2-8°C or aliquot into smaller volumes and store at -20°C. Avoid multiple freeze / thaw cycles.
- Reagents are stable for the period shown on the label if stored as directed.

## Warning

---

Some reagents contain sodium azide. Please refer to product specific SDS.

## References

---

1. Abrams JS, Silver JE, Van Dyke RE, Gleich GJ. Eosinophil-active cytokines in human disease: development and use of monoclonal antibodies to IL-3, IL-5 and GM-CSF. In: Gleich GJ, Kay AB, editors. Eosinophils in allergy and inflammation. New York: Marcek Dekker; 1994. p. 133-57. (Immunogen, ELISA-Capture, Neut)
2. Bacchetta R, de Waal Malefijt R, Yssel H, Abrams J, de Vries JE, Spits H, et al. Host-reactive CD4<sup>+</sup> and CD8<sup>+</sup> T cell clones isolated from a human chimera produce IL-5, IL-2, IFN- $\gamma$  and granulocyte/macrophage-colony-stimulating factor but not IL-4. J Immunol. 1990;144:902-8. (ELISA-Capture)
3. Abrams JS, Roncarolo M, Yssel H, Andersson U, Gleich GJ, Silver JE. Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples. Immunol Rev. 1992;127:5-24. (ELISA-Capture, Neut)
4. Mahanty S, Abrams JS, King CL, Limaye AP, Nutman TB. Parallel regulation of IL-4 and IL-5 in human helminth infections. J Immunol. 1992;148:3567-71. (ELISA-Capture, ELISPOT-Capture)
5. Abrams JS. Immunoenzymetric assay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. Curr Protoc Immunol. 2001;6.20:1-15. (ELISA-Capture)
6. Zhao W, Oskeritzian CA, Pozez AL, Schwartz LB. Cytokine production by skin-derived mast cells: endogenous proteases are responsible for degradation of cytokines. J Immunol. 2005;175:2635-42. (ELISA-Capture)
7. Janke M, Witsch EJ, Mages HW, Hutloff A, Kroczeck RA. Eminent role of ICOS costimulation for T cells interacting with plasmacytoid dendritic cells. Immunology. 2006;118:353-60. (ELISA-Capture)
8. Klinman D. ELISPOT assay to detect cytokine-secreting murine and human cells. Curr Protoc Immunol. 2008;6.19:1-9. (ELISPOT-Capture)
9. Krouwels FH, Nocker RE, Snoek M, Lutter R, van der Zee JS, Weller FR, et al. Immunocytochemical and flow cytofluorimetric detection of intracellular IL-4, IL-5 and IFN- $\gamma$ : applications using blood- and airway-derived cells. J Immunol Methods. 1997;203:89-101. (FC, ICC)
10. Gereda JE, Leung DY, Thatayatikom A, Streib JE, Price MR, Klennert MD, et al. Relation between house-dust endotoxin exposure, type 1 T-cell development, and allergen sensitisation in infants at high risk of asthma. Lancet. 2000;355:1680-3. (FC)
11. Andersson J, Abrams J, Björk L, Funa K, Litton M, Agren K, et al. Concomitant in vivo production of 19 different cytokines in human tonsils. Immunology. 1994;83:16-24. (IHC-FS)
12. Ulfgren A, Lindblad S, Klareskog L, Andersson J, Andersson U. Detection of cytokine producing cells in the synovial membrane from patients with rheumatoid arthritis. Ann Rheum Dis. 1995;54:654-61. (IHC-FS)
13. Denburg JA, Silver JE, Abrams JS. Interleukin-5 is a human basophilopoietin: induction of histamine content and basophilic differentiation of HL-60 cells and of peripheral blood basophil-eosinophil progenitors. Blood. 1991;77:1462-8. (Neut)

TB10119  
08-Oct-21

**Corporate Offices:** 160 Oxmoor Blvd • Birmingham, AL 35209 • USA    **Mailing Address:** P.O. Box 26221 • Birmingham, AL 35260 • USA

**Tel:** 205.945.1774 • U.S. and Canada: 800.722.2255 • **Fax:** 205.945.8768

**Email:** [info@southernbiotech.com](mailto:info@southernbiotech.com) • **Website:** [www.southernbiotech.com](http://www.southernbiotech.com)