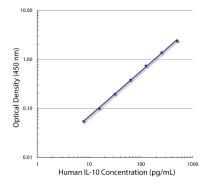
SouthernBiotech



Rat Anti-Human IL-10

| Cat. No. | Format | Size |
|----------|-----------------------------------|--------|
| 10100-01 | Purified (UNLB) | 0.5 mg |
| 10100-14 | Low Endotoxin, Azide-Free (LE/AF) | 0.5 mg |



Standard curve generated with Rat Anti-Human IL-10-UNLB (SB Cat. No. 10100-01; Clone JES3-9D7) and Rat Anti-Human IL-10-BIOT (SB Cat. No. 10110-08; Clone JES3-12G8) followed by Streptavidin-HRP (SB Cat. No. 7100-05)

Overview

| Clone | JES3-9D7 |
|-------------------|--|
| lsotype | Rat IgG₁κ |
| Immunogen | COS-expressed human IL-10 |
| Specificity | Human/Viral/Rhesus/Cynomolgus/Sooty Mangabey IL-10 |
| Alternate Name(s) | Interleukin-10, cytokine synthesis inhibitory factor, CSIF, TGIF, B-TCGF |

Applications

ELISA-Capture – Quality tested ¹⁻⁶ ELISPOT-Capture – Reported in literature ^{6,7} FC – Reported in literature ⁸⁻¹⁵ IHC-FS – Reported in literature ¹⁶ IHC-PS – Reported in literature ¹⁷ WB – Reported in literature ¹⁸ Neut – Reported in literature ^{1,18,19} Multiplex-Capture – Reported in literature ²⁰

Note - May be paired with the biotinylated clone JES3-12G8 (SB Cat. No. 10110-08) in a sandwich ELISA

Working Dilutions

| ELISA | Purified (UNLB) antibody | ≤ 5 μg/mL |
|--------------------|--|-----------|
| Other Applications | 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 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.

References

- 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)
- 2. Gotlieb WH, Abrams JS, Watson JM, Velu TJ, Berek JS, Martínez-Maza O. Presence of interleukin 10 (IL-10) in the ascites of patients with ovarian and other intra-abdominal cancers. Cytokine. 1992;4:385-90. (ELISA-Capture, Viral Reactivity)
- 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)
- 4. Mosmann T. Measurement of mouse and human interleukin 10. Curr Protoc Immunol. 2001;6.14:1-8. (ELISA-Capture)
- 5. Ma Y, Thornton S, Duwel LE, Boivin GP, Giannini EH, Leiden JM, et al. Inhibition of collagen-induced arthritis in mice by viral IL-10 gene transfer. J Immunol. 1998;161:1516-24. (ELISA-Capture, Viral Reactivity)
- Guerkov RE, Targoni OS, Kreher CR, Boehm BO, Herrera MT, Tary-Lehmann M, et al. Detection of low-frequency antigen-specific IL-10-producing CD4⁺ T cells via ELISPOT in PBMC: cognate vs. nonspecific production of the cytokine. J Immunol Methods. 2003;279:111-21. (ELISA-Capture, ELISPOT-Capture)
- 7. Klinman D. ELISPOT assay to detect cytokine-secreting murine and human cells. Curr Protoc Immunol. 2008;6.19:1-9. (ELISPOT-Capture)
- Koshiba M, Rosin DL, Hayashi N, Linden J, Sitkovsky MV. Patterns of A_{2A} extracellular adenosine receptor expression in different functional subsets of human peripheral T cells. Flow cytometry studies with anti-A_{2A} receptor monoclonal antibodies. Mol Pharmacol. 1999;55:614-24. (FC)
- 9. Kaur A, Grant RM, Means RE, McClure H, Feinberg M, Johnson RP. Diverse host responses and outcomes following simian immunodeficiency virus SIVmac239 infection in sooty mangabeys and rhesus macaques. J Virol. 1998;72:9597-611. (FC, Rhesus & Sooty Mangabey Reactivity)
- Gauduin M, Glickman RL, Ahmad S, Yilma T, Johnson RP. Immunization with live attenuated simian immunodeficiency virus induces strong type 1 T helper responses and β-chemokine production. Proc Natl Acad Sci USA. 1999;96:14031-6. (FC, Rhesus Reactivity)
- 11. Annunziato F, Cosmi L, Liotta F, Lazzeri E, Manetti R, Vanini V, et al. Phenotype, localization, and mechanism of suppression of CD4⁺CD25⁺ human thymocytes. J Exp Med. 2002;196:379-87. (FC)
- 12. Gansuvd B, Hubbard WJ, Hutchings A, Thomas FT, Goodwin J, Wilson SB, et al. Phenotypic and functional characterization of long-term cultured rhesus macaque spleen-derived NKT cells. J Immunol. 2003;171:2904-11. (FC, Rhesus Reactivity)
- Mattila JT, Diedrich CR, Lin PL, Phuah J, Flynn JL. Simian immunodeficiency virus-induced changes in T cell cytokine responses in cynomolgus macaques with latent Mycobacterium tuberculosis infection are associated with timing of reactivation. J Immunol. 2011;186:3527-37. (FC, Cynomolgus Reactivity)
- Souza-Lemos C, de-Campos SN, Teva A, Porrozzi R, Grimaldi G Jr. In situ characterization of the granulomatous immune response with time in nonhealing lesional skin of Leishmania braziliensis-infected rhesus macaques (Macaca mulatta). Vet Immunol Immunopathol. 2011;142:147-55. (FC, Rhesus Reactivity)
- Lin PL, Rutledge T, Green AM, Bigbee M, Fuhrman C, Klein E, et al. CD4 T cell depletion exacerbates acute Mycobacterium tuberculosis while reactivation of latent infection is dependent on severity of tissue depletion in cynomolgus macaques. AIDS Res Hum Retroviruses. 2012;28:1693-702. (FC, Cynomolgus Reactivity)
- 16. Melgar S, Yueng MM, Bas A, Forsberg G, Suhr O, Öberg Å, et al. Over-expression of interleukin 10 in mucosal T cells of patients with active ulcerative colitis. Clin Exp Immunol. 2003;134:127-37. (IHC-FS)
- 17. Smith DR, Kunkel SL, Burdick MD, Wilke CA, Orringer MB, Whyte RI, et al. Production of interleukin-10 by human bronchogenic carcinoma. Am J Pathol. 1994;145:18-25. (IHC-PS)
- 18. Brodeur ND, Spencer JV. Antibodies to human IL-10 neutralize ebvIL-10-mediated cytokine suppression but have no effect on cmvIL-10 activity. Virus Res. 2010;153:265-8. (WB, Neut, Viral Reactivity)
- Cousins DJ, Lee TH, Staynov DZ. Cytokine coexpression during human Th1/Th2 cell differentiation: direct evidence for coordinated expression of Th2 cytokines. J Immunol. 2002;169:2498-506. (Neut)
- 20. Hutchinson KL, Villinger F, Miranda ME, Ksiazek TG, Peters CJ, Rollin PE. Multiplex analysis of cytokines in the blood of cynomolgus macaques naturally infected with Ebola virus (Reston serotype). J Med Virol. 2001;65:561-6 (Multiplex-Capture, Cynomolgus Reactivity)