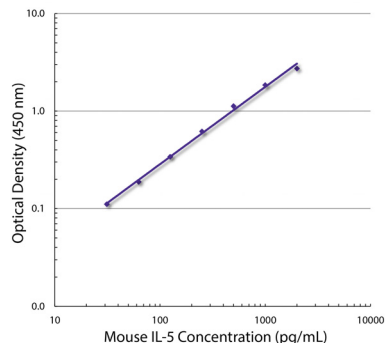




Rat Anti-Mouse IL-5

Cat. No.	Format	Size
10206-01	Purified (UNLB)	0.5 mg
10206-08	Biotin (BIOT)	0.5 mg



Standard curve generated with Rat Anti-Mouse IL-5-UNLB (SB Cat. No. 10205-01; Clone TRFK5) and Rat Anti-Mouse IL-5-BIOT (SB Cat. No. 10206-08; Clone TRFK4) followed by Streptavidin-HRP (SB Cat. No. 7100-05)

Overview

Clone	TRFK4
Isotype	Rat IgG _{2a} K
Immunogen	Semi-purified T cell clone supernatant
Specificity	Mouse IL-5
Alternate Name(s)	Interleukin-5, B cell growth factor-2, BCGF-2, IgA enhancing factor, IgA-EF, T-cell replacing factor-1, TRF-1, eosinophil colony stimulating factor, Eo-CSF, eosinophil differentiation factor, EDF

Applications

ELISA-Detection – Quality tested ¹⁻⁶
 ELISPOT-Detection – Reported in literature ^{7,9,10,12-16}
 ELISPOT-Capture – Reported in literature ^{8,11}
 IHC-FS – Reported in literature ^{17,18}
 ICC – Reported in literature ³
 Purification – Reported in literature ¹
 Neut – Reported in literature ^{1,2}
 Multiplex-Detection – Reported in literature ⁴

Note – May be paired with the purified clone TRFK5 (SB Cat. No. 10205-01) in a sandwich ELISA

Working Dilutions

ELISA	BIOT conjugate	1:1,000 – 1:2,000
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 biotin (BIOT) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/Na₃. Store at 2-8°C.
- 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. Schumacher JH, O'Garra A, Shrader B, van Kimmenade A, Bond MW, Mosmann TR, et al. The characterization of four monoclonal antibodies specific for mouse IL-5 and development of mouse and human IL-5 enzyme-linked immunosorbent. *J Immunol.* 1988;141:1576-81. (Immunogen, ELISA-Detection, Purification, Neut)
2. 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-Detection, Neut)
3. Sander B, Höidéén I, Andersson U, Möller E, Abrams JS. Similar frequencies and kinetics of cytokine producing cells in murine peripheral blood and spleen. Cytokine detection by immunoassay and intracellular immunostaining. *J Immunol Methods.* 1993;166:201-14. (ELISA-Detection, ICC)
4. Carson RT, Vignali DA. Simultaneous quantitation of 15 cytokines using a multiplexed flow cytometric assay. *J Immunol Methods.* 1999;227:41-52. (ELISA-Detection, Multiplex-Detection)
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-Detection)
6. da Fonseca DM, Silva CL, Wowk PF, Paula MO, Ramos SG, Horn C, et al. Mycobacterium tuberculosis culture filtrate proteins plus CpG Oligodeoxynucleotides confer protection to Mycobacterium bovis BCG-primed mice by inhibiting interleukin-4 secretion. *Infect Immun.* 2009;77:5311-21. (ELISA-Detection)
7. Lu P, Zhou X, Chen S, Moorman M, Morris SC, Finkelman FD, et al. CTLA-4 ligands are required to induce an in vivo interleukin 4 response to a gastrointestinal nematode parasite. *J Exp Med.* 1994;180:693-8. (ELISPOT-Detection)
8. Bordmann G, Rudin W, Favre N. Immunization of mice with phosphatidylcholine drastically reduces the parasitaemia of subsequent Plasmodium chabaudi chabaudi blood-stage infections. *Immunology.* 1998;94:35-40. (ELISPOT-Capture)
9. Karulin AY, Hesse MD, Tary-Lehmann M, Lehmann PV. Single-cytokine-producing CD4 memory cells predominate in type 1 and type 2 immunity. *J Immunol.* 2000;164:1862-72. (ELISPOT-Detection)
10. Stern BV, Boehm BO, Tary-Lehmann M. Vaccination with tumor peptide in CpG adjuvant protects via IFN- γ -dependent CD4 cell immunity. *J Immunol.* 2002;168:6099-105. (ELISPOT-Detection)
11. Fedoseyeva EV, Kishimoto K, Rolls HK, Illigens BM, Dong VM, Valujskikh A, et al. Modulation of tissue-specific immune response to cardiac myosin can prolong survival of allogeneic heart transplants. *J Immunol.* 2002;169:1168-74. (ELISPOT-Capture)
12. Kreher CR, Dittrich MT, Guerkov R, Boehm BO, Tary-Lehmann M. CD4⁺ and CD8⁺ cells in cryopreserved human PBMC maintain full functionality in cytokine ELISPOT assays. *J Immunol Methods.* 2003;278:79-93. (ELISPOT-Detection)
13. Linker RA, Rott E, Hofstetter HH, Hanke T, Toyka KV, Gold R. EAE in beta-2 microglobulin-deficient mice: axonal damage is not dependent on MHC-I restricted immune responses. *Neurobiol Dis.* 2005;19:218-28. (ELISPOT-Detection)
14. Nekrasova T, Shive C, Gao Y, Kawamura K, Guardia R, Landreth G, et al. ERK1-deficient mice show normal T cell effector function and are highly susceptible to experimental autoimmune encephalomyelitis. *J Immunol.* 2005;175:2374-80. (ELISPOT-Detection)
15. Hofstetter HH, Mössner R, Lesch KP, Linker RA, Toyka KV, Gold R. Absence of reuptake of serotonin influences susceptibility to clinical autoimmune disease and neuroantigen-specific interferon-gamma production in mouse EAE. *Clin Exp Immunol.* 2005;142:39-44. (ELISPOT-Detection)
16. Klinman D. ELISPOT assay to detect cytokine-secreting murine and human cells. *Curr Protoc Immunol.* 2008;6.19:1-9. (ELISPOT-Detection)
17. Sunnemark D, Ulfgrén A, Örn A, Harris RA. Cytokine production in hearts of Trypanosoma cruzi-infected CBA mice: Do cytokine patterns in chronic stage reflect the establishment of myocardial pathology?. *Scand J Immunol.* 1996;44:421-9. (IHC-FS)
18. Martinelli TM, Van Driel IR, Alderuccio F, Gleeson PA, Toh B. Analysis of mononuclear cell infiltrate and cytokine production in murine autoimmune gastritis. *Gastroenterology.* 1996;110:1791-802. (IHC-FS)