

Technical Data Sheet

Biotin Rat Anti-Mouse IL-5

Product Information

Material Number:	554397
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	TRFK4
Immunogen:	Semi-purified T Cell Clone Supernatant
Isotype:	Rat IgG2a
Reactivity:	QC Testing: Mouse
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The TRFK4 antibody reacts with mouse interleukin-5 (IL-5). The immunogen used to generate the TRFK4 hybridoma was a semi-purified T cell clone supernatant. This is a neutralizing antibody.

Preparation and Storage

Store undiluted at 4°C.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.

Application Notes

Application

ELISA Detection	Routinely Tested
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Recommended Assay Procedure:

ELISA Detection: The biotinylated TRFK4 antibody (Cat. No. 554397) is useful as a detection antibody for a sandwich ELISA for measuring mouse IL-5 protein levels. Biotinylated TRFK4 antibody can be paired with the purified TRFK5 antibody (Cat. No. 554393) as the capture antibody, with recombinant mouse IL-5 (Cat. No. 554581) as the standard. This biotinylated detection antibody should be titrated in the range of 0.5 to 2.0 µg/ml to determine its optimal concentration for ELISA. To obtain linear standard curves, doubling dilutions of mouse IL-5 ranging from ~15 to 2000 pg/ml are recommended for inclusion in each ELISA plate.

For specific methodology, please visit our web site, http://www.bdbiosciences.com/support/resources/elisa_elispot/ for more detailed information.

Note: This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assaying serum or plasma samples. For measuring Mouse IL-5 in serum or plasma our Mouse IL-5 BD OptEIA™ Set (Cat. No. 555236) is specially formulated and recommended.

Note: This ELISA pair shows no cross-reactivity with any of the following cytokines tested (e.g., mouse IL-1β, IL-2, IL-3, IL-4, IL-6, IL-7, IL-9, IL-10, IL-12 p70, IL-15, GM-CSF, IFN-γ, MCP-1, TCA-3, TNF; human IL-1α, IL-1β, IL-2, IL-3, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-11, IL-12 p70, IL-12 p40, IL-13, IL-15, G-CSF, GM-CSF, IFN-γ, lymphotactin, MCP-1, MCP-2, MIP-1α, MIP-1β, NT-3, PDGF-AA, sCD23, SCF, TNF, LT-α, VEGF; rat IL-2, IL-4, IL-6, IL-10, GM-CSF, IFN-γ, TNF).

Suggested Companion Products

Catalog Number	Name	Size	Clone
554393	Purified Rat Anti-Mouse/Anti-Human IL-5	0.5 mg	TRFK5
554581	Recombinant Mouse IL-5	5 µg	(none)
555236	Mouse IL-5 ELISA Set	20 plates	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.

References

Abrams J. Immunoassay of mouse and human cytokines using NIP-labeled anti-cytokine antibodies. In: Coligan J, Kruisbeek A, Margulies D, Shevach E, Strober W, ed. *Current Protocols in Immunology*. New York: John Wiley and Sons; 1995:6.20-6.21. (Clone-specific: ELISA)

Abrams JS, Roncarolo MG, 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. (Clone-specific: ELISA)

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Sander B, Andersson J, Andersson U. Assessment of cytokines by immunofluorescence and the paraformaldehyde-saponin procedure. *Immunol Rev.* 1991; 119:65-93. (Clone-specific: ELISA)

Schumacher JH, O'Garra A, Shrader B, 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(5):1576-1581. (Clone-specific: ELISA)