BioLegend
The path to legendary discovery™

Product Data Sheet

Biotin anti-mouse IL-5

Catalog # / Size: 504401 / 50 µg
504402 / 500 µg

Clone: TRFK4

Isotype: Rat IgG2a, κ

Immunogen: Partially-purified T cell clone supernatant

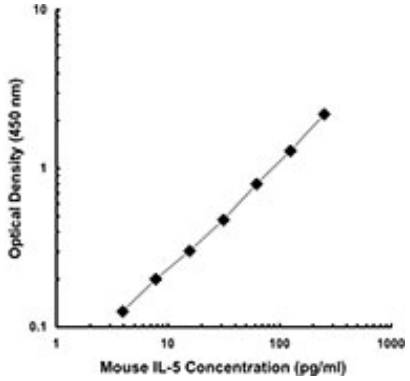
Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography, and conjugated with biotin under optimal conditions. The solution is free of unconjugated biotin.

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. **Do not freeze.**



Applications:

Applications: ELISA Detection, ELISPOT Detection

Recommended Usage: Each lot of this antibody is quality control tested by ELISA assay. For use as an ELISA detection antibody, a concentration range of 0.25-1.0 µg/ml is recommended. To obtain a linear standard curve, serial dilutions of mouse IL-5 recombinant protein ranging from 250 to 1 pg/ml are recommended for each ELISA plate. For use as an ELISPOT detection antibody, a concentration range of 1-4 µg/ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes:

ELISA[1-4] or ELISPOT[5-7] Detection: The biotinylated TRFK4 antibody is useful as a detection antibody for a sandwich ELISA or ELISPOT assay, when used in conjunction with purified TRFK5 antibody (Cat. No. 504302/504308) as the capture antibody.
Additional reported applications (for the relevant formats) include: neutralization[1] of mouse IL-5 bioactivity. The LEAF™ purified TRFK5 antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for neutralization of mouse and human IL-5 bioactivity (Cat. No. 504308).
Note: For testing mouse IL-5 in serum, plasma or supernatant, BioLegend's ELISA Max™ Sets (Cat. No. 431201 to 431206) are specially developed and recommended.

Application References:

1. Schumacher, J., *et al.* 1988. *J. Immunol.* 141:1576.
2. Abrams, J., *et al.* 1992. *Immunol. Rev.* 127:5.
3. Abrams, J. 1995. *Curr. Prot. Immunol.* John Wiley and Sons, New York. Unit 6.20.
4. Sander, B., *et al.* 1993. *J. Immunol. Meth.* 166:201.
5. Taguchi, T., *et al.* 1990. *J. Immunol. Meth.* 128:65.
6. Taguchi, T., *et al.* 1990. *J. Immunol.* 145:68.
7. Klinman, D., *et al.* 1994. *Curr. Prot. Immunol.* John Wiley and Sons, New York. Unit 6.19.

Description: IL-5 is a homodimeric, disulphide-linked protein produced by T-cells. The native protein can have variable molecular weight as a result of glycosylation. Monomeric mouse IL-5 is a 113 amino acid protein with a reported molecular weight of 35-37 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 and stimulates the activation, and differentiation of eosinophils, and promotes the generation of cytotoxic lymphocytes . Mouse IL-5 induces the differentiation and proliferation of pre-activated B-cells and stimulates the production and secretion of IgM and IgA by B-cells stimulated with bacterial endotoxin. The TRFK4 antibody reacts with mouse interleukin-5 (IL-5). The TRFK4 antibody can neutralize the bioactivity of natural or recombinant IL-5.

Antigen References:

1. Fitzgerald, K., *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego.
2. Takatsu, K., *et al.* 1988. *Immunol. Rev.* 102:107.
3. Takatsu, K. 1992. *Curr. Opin. Immunol.* 4:299.
4. Takatsu, K. 1991. *Microbiol. Immunol.* 35:593.

Related Products:

Product	Clone	Application
LEAF™ Purified anti-mouse/human IL-5	TRFK5	ELISA Capture, ELISPOT Capture, ICFC, IHC, Neut, WB, CyTOF®
Purified anti-mouse/human IL-5	TRFK5	ELISA Capture, IHC, WB, CyTOF®
Recombinant Mouse IL-5		BA, ELISA
HRP Avidin	Avidin	ELISA, ELISPOT, IHC, WB
TMB Substrate Reagent Set		ELISA

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ELISA Assay Diluent (5X)	ELISA
Mouse IL-5 ELISA MAX™ Standard	ELISA
Mouse IL-5 ELISA MAX™ Deluxe	ELISA

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