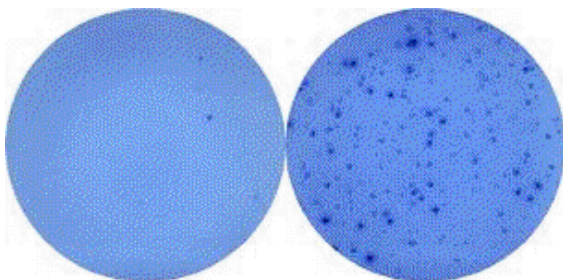


Anti-Human/Mouse IL-5 Functional Grade Purified

Catalog Number: 16-7052

Also Known As: Interleukin-5, IL5

RUO: For Research Use Only



Naive mouse splenocytes (SJL/J strain) were stimulated with 2 µg/ml ConA in HL-1 media for 48 hours (right well) in a Mouse IL-5 ELISPOT assay plate. Left well is medium alone control.

Product Information

Contents: Anti-Human/Mouse IL-5 Functional Grade Purified

REF **Catalog Number:** 16-7052

Clone: TRFK5

Concentration: 1 mg/ml

Host/Isotype: Rat IgG1, κ


Handling Conditions: Use in sterile environment.

Endotoxin Level: Less than 0.001 ng/ug antibody, as determined by the LAL assay.

Formulation: aqueous buffer, no sodium azide

 **Temperature Limitation:** Store at 2-8°C.

LOT **Batch Code:** Refer to Vial

 **Use By:** Refer to Vial

Description

The TRFK5 antibody reacts with mouse and human interleukin-5 (IL-5). The TRFK5 antibody is a neutralizing antibody. Mouse IL-5 is a disulfide-linked homodimer, containing two 113 amino acid peptides; these resolve as 32-34 kDa bands in SDS-PAGE. IL-5 is produced by T cells and has been known as eosinophil-differentiating factor (EDF), B cell growth factor II (BCGFII), and T cell-replacing factor (TRF). IL-5 induces eosinophil differentiation and promotes eosinophil survival and activation. In mice, IL-5 has been shown to stimulate B cell proliferation and antibody production.

Applications Reported

The TRFK5 antibody has been reported for use in ELISA capture, ELISPOT capture, neutralization of IL-5 bioactivity, and IHC.

Applications Tested

The Functional Grade Purified TRFK5 antibody has been tested by LAL assay to verify low endotoxin levels, by ELISA, and in bioassay for neutralization of mouse IL-5 bioactivity.

The TRFK5 antibody at 0.06 µg/ml has been found to inhibit by 50% the biological effects of 1.0 ng/ml mouse IL-5 in an MC/9 cell proliferation assay. Detailed information and protocols about cytokine bioassays and in vitro cytokine neutralization using antibodies can be found in the BestProtocols[®] section.

The TRFK5 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of mouse IL-5 in combination with the biotin TRFK4 (13-7051) antibody for detection and recombinant mouse IL-5 (14-8051) as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1-4 µg/ml. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 1000 pg/ml - 8 pg/ml should be included in each ELISA plate.

The TRFK5 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of human IL-5 in combination with the biotinylated JES1-5A10 (13-7059) antibody for detection and recombinant human IL-5 (14-80591) as the standard. A suitable range of concentrations of this antibody for ELISA capture is 1-4 µg/ml. A standard curve consisting of doubling dilutions of the recombinant standard over the range of 1000 pg/ml - 8 pg/ml should be included in each ELISA plate.

References

Abrams, J. S., M. G. Roncarolo, et al. (1992). "Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and

IL-5 in clinical samples." Immunol Rev 127: 5-24.

Schumacher, J. H., A. O'Garra, et al. (1988). "The characterization of four monoclonal antibodies specific for mouse IL-5 and development of mouse and human IL-5 enzyme-linked immunosorbent." J Immunol 141(5): 1576-81.

Related Products

- 13-7051 Anti-Mouse IL-5 Biotin (TRFK4)
- 13-7059 Anti-Human IL-5 Biotin (JES1-5A10)
- 14-7051 Anti-Mouse IL-5 Purified (TRFK4)
- 16-4301 Rat IgG1 K Isotype Control Functional Grade Purified
- 16-7059 Anti-Human IL-5 Functional Grade Purified (JES1-5A10)
- 34-8041 Mouse IL-4 Recombinant Protein Carrier-Free
- 34-8051 Mouse IL-5 Recombinant Protein Carrier-Free
- 34-8131 Mouse IL-13 Recombinant Protein Carrier-Free
- 34-8231 Mouse IL-23 Recombinant Protein Carrier-Free
- 34-8311 Mouse IFN gamma Recombinant Protein Carrier-Free

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