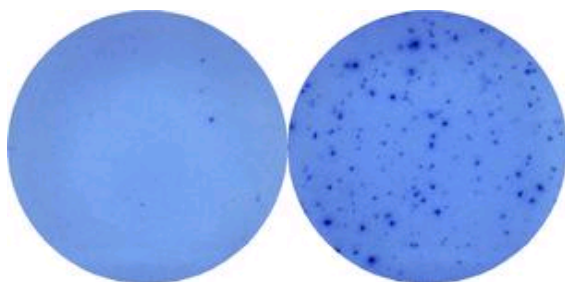


Anti-Human/Mouse IL-5 Purified

Catalog Number: 14-7052

Also Known As: Interleukin-5, IL5

RUO: For Research Use Only



Naive mouse splenocytes (SJL/J strain) were stimulated with 2 ug/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 Purified

 Catalog Number: 14-7052

Clone: TRFK5

Concentration: 0.5 mg/ml

Host/Isotype: Rat IgG1, κ

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer



Temperature Limitation: Store at 2-8°C.



Batch Code: Refer to Vial



Use By: Refer to Vial



Caution, contains Azide

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, IHC, and intracellular staining for flow cytometric analysis.

Applications Tested

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 μ g/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 μ g/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 Functional Grade purified TRFK5 antibody has been tested for neutralization of IL-5 bioactivity.

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

00-4202 ELISA Diluent Solution (5X)

00-4203 Super AquaBlue ELISA Substrate

13-7051 Anti-Mouse IL-5 Biotin (TRFK4)

13-7059 Anti-Human IL-5 Biotin (JES1-5A10)
18-4100 Avidin HRP
44-2404 Nunc MaxiSorp® flat-bottom 96 well plate

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