

Product Information

Contents: Affinity Purified anti-mouse/human interleukin-5 (IL-5)

Catalog Number: 14-7052

Sizes: 50 ug, 500 ug

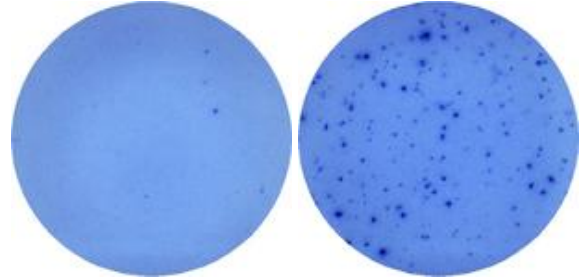
Formulation: Phosphate buffer pH 7.2, 150 mM NaCl, 0.09% NaN₃

Storage Conditions: Store at 4°C.

Avoid repeated freeze/thaw cycles.

Clone: TRFK5

Isotype: Rat IgG1, κ



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 (pre-coated with functional grade TRFK5 antibody). Left well is medium alone control.

Available Formats of This Product				
Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
14-7052	Affinity Purified anti-mouse/human IL-5 (Interleukin-5)	N/A	N/A	ELISA cap ELISPOT cap IC NU
16-7052	Functional Grade* Purified anti-mouse/human IL-5 (Interleukin-5)	N/A	N/A	NU

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/μg.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

Description

The TRFK5 antibody reacts with mouse and human interleukin-5 (IL-5), also known as BCDF-α and eosinophil differentiation factor (EDF). This 15-20 kDa cytokine is secreted by T cells and exists as a homodimer.

Usage

For research use only, not for diagnostic or therapeutic use. The TRFK5 antibody has been reported for use in intracellular staining for flow cytometric analysis, cytokine neutralization, and ELISPOT. (Fluorochrome conjugated TRFK5 is recommended for use in intracellular flow cytometry.) (Please use Functional Grade purified TRFK5, cat. 16-7052, in functional assays.)

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 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.

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

Related Products

Cat. 00-0000	eBioscience 10X ELISA Coating Buffer
Cat. 44-2404	Nunc MaxiSorp™ flat-bottom 96 well plate
Cat. 18-4100	Avidin Horse Radish Peroxidase (AV-HRP)
Cat. 00-4202	eBioscience ELISA Diluent Solution, 5X
Cat. 00-4203	Super AquaBlue ELISA Substrate
Cat. 13-7051	Biotin anti-mouse IL-5 (Interleukin-5) (clone TRFK4)

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.