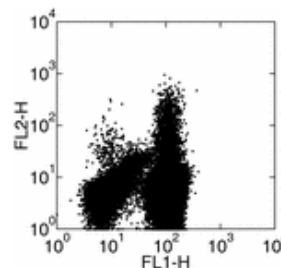


Product Information

Contents: Affinity Purified anti-human interleukin-4 (IL-4)
Catalog Number: 14-7049
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: 8D4-8
Isotype: Mouse IgG1, κ



Human peripheral blood mononuclear cells were stimulated with PMA and ionomycin in the presence of Brefeldin A for 5 hours. The cells were surface stained with FITC anti-human CD3 (UCHT1) and intracellularly stained with PE anti-human IL-4 (8D4-8).

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
12-7049	Phycoerythrin (PE) anti-human IL-4 (Interleukin-4)	488	575	IC
14-7049	Affinity Purified anti-human IL-4 (Interleukin-4)	N/A	N/A	ELISA cap ELISPOT cap
17-7049	Allophycocyanin (APC) anti-human IL-4 (Interleukin-4)	633	660	IC
25-7049	Phycoerythrin-Cy7 (PE-Cy7) anti-human IL-4 (Interleukin-4)	488	760	IC

Description

The 8D4-8 antibody reacts with human interleukin-4 (IL-4), a 15-19 kDa cytokine secreted by Th2 cells.

Usage

For research use only, not for diagnostic or therapeutic use. The 8D4-8 antibody has been reported for use in capture of human IL-4 by ELISA and in intracellular staining for flow cytometric analysis.

Applications Tested

The 8D4-8 antibody has been tested as the capture antibody in a sandwich ELISA for analysis of human Interleukin-4 (IL-4) in combination with the biotinylated MP4-25D2 (13-7048) antibody for detection and recombinant human IL-4 (14-8049) 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 500 pg/ml - 4 pg/ml should be included in each ELISA plate.

The fluorochrome-conjugated 8D4-8 antibody is offered in 2 formats:

- µg size: has been tested by intracellular staining for flow cytometric analysis. This can be used at less than or equal to 0.5 µg per million cells in a 100 µl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.
- test size: has been pre-titrated and tested by intracellular staining for flow cytometric analysis. This can be used at 20 µl per million cells in a 100 µl total staining volume.

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. 13-7048 Biotin anti-human IL-4 (Interleukin-4) (clone MP4-25D2)
- Cat. 14-8049 Recombinant Human IL-4 (Interleukin-4)

References

Bird, C., et al. 1991. Development of immunoassays for human interleukin-3 and interleukin-4, some of which discriminate between different recombinant cDNA-derived molecules. *Cytokine*. 3: 562-567.

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