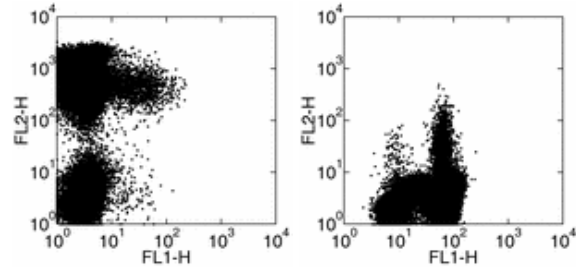


## Product Information

Contents: Biotin anti-human interleukin-4 (IL-4)  
Catalog Number: 13-7048  
Sizes: 50 ug, 500 ug  
Formulation: Phosphate buffer pH 7.2,  
150 mM NaCl, 0.09% NaN<sub>3</sub>  
Storage Conditions: Store at 4°C.  
DO NOT FREEZE.  
Clone: MP4-25D2  
Isotype: Rat IgG1, κ



Human peripheral blood mononuclear cells were stimulated with PMA and ionomycin in the presence of Brefeldin A for 5 hours. (Left) The cells were surface stained with PE anti-human CD3 (UCHT1) and intracellularly stained with FITC anti-human IL-4 (MP4-25D2). (Right) The cells were surface stained with FITC anti-human CD3 and intracellularly stained with PE anti-human IL-4.

Available Formats of This Product				
Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-7048	FITC anti-human IL-4 (Interleukin-4)	488	518	IC
12-7048	PE anti-human IL-4 (Interleukin-4)	488	575	IC
13-7048	Biotin anti-human IL-4 (Interleukin-4)	N/A	N/A	ELISA det ELISPOT det
14-7048	Affinity Purified anti-human IL-4 (Interleukin-4)	N/A	N/A	IC
16-7048	Functional Grade* Purified anti-human IL-4 (Interleukin-4)	N/A	N/A	BA
17-7048	APC anti-human IL-4 (Interleukin-4)	633	660	IC

\*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 MP4-25D2 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 MP4-25D2 antibody has been reported for use in detection of human IL-4 by ELISA and for intracellular staining for flow cytometry.

## Applications Tested

The MP4-25D2 antibody has been tested as the detection antibody in a sandwich ELISA for analysis of human Interleukin-4 (IL-4) in combination with the purified 8D4-8 (14-7049) antibody for capture and recombinant human IL-4 (14-8049) as the standard. A suitable range of concentrations of this antibody for ELISA detection is 0.5-2 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.

## 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. 14-7049 Affinity Purified anti-human IL-4 (Interleukin-4) (clone 8D4-8)  
Cat. 14-8049 Recombinant Human IL-4 (Interleukin-4)

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#### References

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Ramanathan, L., R. Ingram, et al. (1993). Immunochemical mapping of domains in human interleukin 4 recognized by neutralizing monoclonal antibodies. *Biochemistry* 32(14): 3549-56.

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.

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