

Product Information

Contents: Fluorescein isothiocyanate (FITC) anti-human interleukin-4 (IL-4)

Catalog Number: 11-7048

Sizes: 25 tests, 50 ug, 100 ug

Formulation: Phosphate buffer pH 7.2, 150 mM NaCl, 0.09% NaN<sub>3</sub>

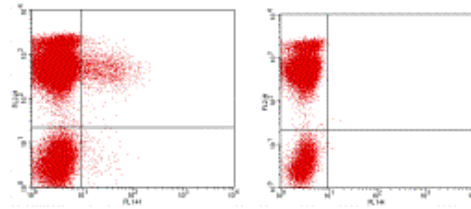
Storage Conditions: Store at 4°C.

DO NOT FREEZE.

LIGHT SENSITIVE MATERIAL.

Clone: MP4-25D2

Isotype: Rat IgG1, κ



Detection of Human IL-4 Producing Cells

(L): Human Peripheral blood mononuclear cells were stimulated with PMA and ionomycin in the presence of 2 μM monensin for 5 hours. The cells were then surface-stained with PE anti-human CD3 (UCHT1) and intracellular-stained with FITC anti-human IL-4 (MP4-25D2).

(R): The specific staining was confirmed by blocking assay through pre-incubation of the permeabilized cells with non-labeled purified anti-human IL-4 (MP4-25D2) before the intracellular staining.

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. MP4-25D2 has been reported for use in intracellular flow cytometric analysis.

Applications Tested

The MP4-25D2 antibody is offered in 2 formats:

- μg size: has been tested by intracellular flow cytometric analysis and can be used at less than or equal to 0.5 μg/million cells (100 μl blood). 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 flow cytometric analysis and can be used at 20 μl per million cells (100 μl blood). The pre-titrated test size contains 0.2% BSA.

Related Products

Cat. 11-4301 FITC Rat IgG1 Isotype Control

## 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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