

Technical Data Sheet

PE Mouse Anti-Human IL-4

Product Information

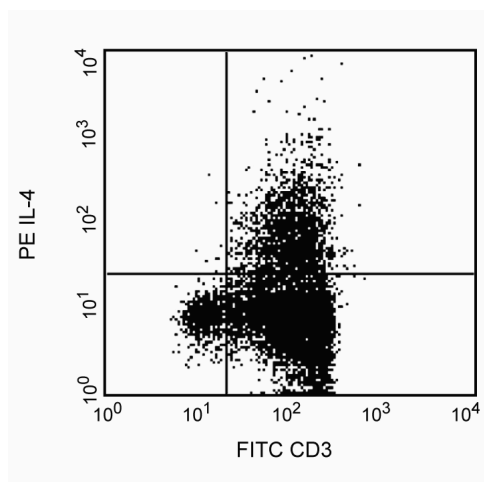
Material Number:	551774
Size:	50 tests
Vol. per Test:	20 µl
Clone:	8D4-8
Immunogen:	Recombinant Human IL-4
Isotype:	Mouse IgG1, κ
Reactivity:	Reactivity: Human
	QC Testing: Cynomolgus or Rhesus
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The 8D4-8 monoclonal antibody reacts with human interleukin-4 (IL-4). The immunogen used to raise the 8D4-8 hybridoma was recombinant human IL-4. The 8D4-8 antibody binds to an epitope that is different than the epitope recognized by the MP4-25D2 antibody (Cat. No. 554485).

Clone 8D4-8 displays an increased amount of non-specific binding to dead cells when compared to the clone MP4-25D2. It is recommended to use a fixable viability dye in conjunction with this clone.

Reacts with interleukin-4 (IL-4). IL-4 is a pleiotropic cytokine produced by T cells and mast cells. It has multiple biological effects on B cells, T cells, monocytes, endothelial cells and fibroblasts. IL-4 induces the production of IgG4 and IgE in human B cells during isotype switching. Clone 8D4-8 cross-reacts with an intracellular component of SEB-stimulated peripheral blood T cells of cynomolgus and rhesus macaque monkeys. The staining pattern is similar to that seen on normal human peripheral blood T cells.



Profile of SEB+ CD28/CD49-stimulated (24 hours) peripheral blood lymphocytes of Rhesus macaque (Macaca mulatta) monkey analyzed by flow cytometry.

Preparation and Storage

Store undiluted at 4°C and protected from prolonged exposure to light. Do not freeze.

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography.

The antibody was conjugated with R-PE under optimum conditions, and unconjugated antibody and free PE were removed.

Application Notes

Application

Intracellular staining (flow cytometry)

Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
556650	PE Mouse IgG1, κ Isotype Control	50 tests	MOPC-21

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Product Notices

1. This reagent has been pre-diluted for use at the recommended Volume per Test. We typically use 1×10^6 cells in a 100- μ l experimental sample (a test).
2. An isotype control should be used at the same concentration as the antibody of interest.
3. Caution: Sodium azide yields highly toxic hydrazoic acid under acidic conditions. Dilute azide compounds in running water before discarding to avoid accumulation of potentially explosive deposits in plumbing.
4. Source of all serum proteins is from USDA inspected abattoirs located in the United States.
5. For fluorochrome spectra and suitable instrument settings, please refer to our Multicolor Flow Cytometry web page at www.bdbiosciences.com/colors.
6. Please refer to www.bdbiosciences.com/pharming/protocols for technical protocols.

References

Callard R, Gearing A. Callard R, Gearing A. *The Cytokine Facts Book*. San Diego: Academic Press; 1994. (Biology)
Paul WE. Interleukin-4: a prototypic immunoregulatory lymphokine. *Blood*. 1991; 77(9):1859-1870. (Biology)

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