Technical Data Sheet

PE Mouse Anti-Human MCP-1

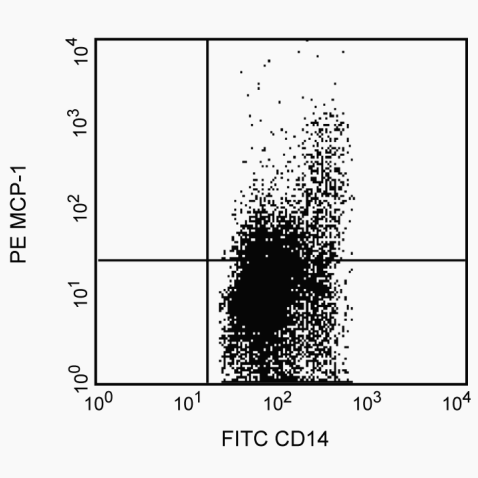
Product Information

Material Number:	**557066**
Size:	50 tests
Vol. per Test:	20 µl
Clone:	5D3-F7
Immunogen:	Recombinant Human MCP-1
Isotype:	Mouse IgG1, κ
Reactivity:	Human QC Testing: Cynomolgus or Rhesus
Storage Buffer:	Aqueous buffered solution containing BSA and ≤0.09% sodium azide.

Description

The 5D3-F7 antibody reacts with human monocyte chemoattractant protein-1 (MCP-1), also known as monocyte chemotactic and activating factor (MCAF).

MCP-1 is a member of the CC chemokine family and it is produced by monocytes, T lymphocytes, fibroblasts, endothelial cells, smooth muscle cells, keratinocytes and some tumors. Its production can be induced by LPS or IFN-γ. Clone 5D3-F7 also cross reacts with an intracellular component of LPS-stimulated (24 hours) peripheral blood monocytes of rhesus and cynomolgus macaque monkeys. The staining pattern observed on non-human primate monocytes is not as strong as that seen on normal human peripheral blood monocytes.



Profile of LPS-stimulated (24 hours) permeabilized peripheral blood mononuclear cells analyzed by flow cytometry

Preparation and Storage

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

Application Notes

Application

Intracellular staining (flow cytometry)	Routinely Tested

Suggested Companion Products

Catalog Number	Name	Size	Clone
551436	PE Mouse IgG1 Kappa Isotype Control	50 tests	MOPC-21
554715	BD Cytofix/Cytoperm Plus Kit (with BD GolgiStop)	250 tests	(none)

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-µl experimental sample (a test).

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2. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
3. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
4. For fluorochrome spectra and suitable instrument settings, please refer to our Fluorochrome Web Page at www.bdbiosciences.com/colors.
5. 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.
6. Source of all serum proteins is from USDA inspected abattoirs located in the United States.

References

Callard R, Gearing A. Callard R, Gearing A. *The Cytokine Facts Book.* San Diego: Academic Press; 1994. (Biology)

Peri G, Milanese C, Matteucci C, et al. A new monoclonal antibody (5D3-F7) which recognizes human monocyte-chemotactic protein-1 but not related chemokines. Development of a sandwich ELISA and in situ detection of producing cells. *J Immunol Methods.* 1994; 174(1-2):249-257. (Biology)

Prussin C, Metcalfe DD. Detection of intracytoplasmic cytokine using flow cytometry and directly conjugated anti-cytokine antibodies. *J Immunol Methods.* 1995; 188(1):117-128. (Biology)