

**APC anti-human MCP-1**

**Catalog # / Size:** 3113060 / 100 tests  
3113055 / 25 tests

**Clone:** 5D3-F7

**Isotype:** Mouse IgG1,  $\kappa$

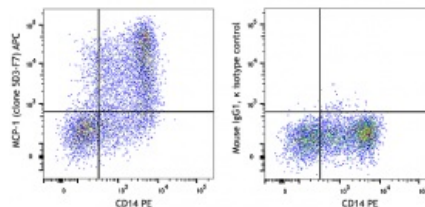
**Immunogen:** Recombinant human MCP-1

**Reactivity:** Human

**Preparation:** The antibody was purified by affinity chromatography and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.

**Formulation:** Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

**Concentration:** Lot-specific



IFN- $\gamma$  primed human peripheral blood monocytes were stimulated with LPS overnight (in the presence of monensin), then surface stained with CD14 PE and intracellularly stained with MCP-1 APC (left) or mouse IgG1,  $\kappa$  APC isotype control (right).

**Applications:**

**Applications:** Intracellular Flow Cytometry

**Recommended Usage:** Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5  $\mu$ l per million cells or 5  $\mu$ l per 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** **ELISA or ELISPOT Detection<sup>1</sup>:** The biotinylated 5D3-F7 antibody is useful as the detection antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the purified 2H5 antibody as the capture antibody.  
**ELISA or ELISPOT Capture:** The purified 5D3-F7 antibody is useful as the capture antibody in a sandwich ELISA or ELISPOT assay, when used in conjunction with the biotinylated 2H5 antibody as the detection antibody.  
**Additional reported applications (for the relevant formats) include :** intracellular flow cytometry<sup>2</sup>, immunoprecipitation<sup>1,3</sup>, Western blotting<sup>1</sup>, and immunohistochemical staining<sup>1</sup>.

**Application References:** 1. Fitzgerald K, *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego.  
2. Bischoff S, *et al.* 1992. *J. Exp. Med.* 175:1271.  
3. Charo I, *et al.* 1994. *P. Natl. Acad. Sci. USA* 91:2752.

**Description:** Monocyte chemotactic protein-1 (MCP-1) also known as monocyte chemotactic and activating factor (MCAF) was identified based on its ability to chemoattract monocytes. Subsequently, MCP-1 has also been found to regulate adhesion molecule expression and cytokine production in monocytes. MCP-1 is identical to the product of the JE gene, a PDGF inducible gene. MCP-1 is a member of the beta (C-C) chemokine subfamily, known as CCL2. The 5D3-F7 antibody reacts with

human monocyte chemoattractant protein-1 (MCP-1).

**Antigen  
References:**

1. Fitzgerald K, *et al.* Eds. 2001. The Cytokine FactsBook. Academic Press, San Diego.
2. Bischoff S, *et al.* 1992. *J. Exp. Med.* 175:1271.
3. Charo I, *et al.* 1994. *P. Natl. Acad. Sci. USA* 91:2752.