

Technical Data Sheet

Purified Mouse Anti-Human MCP-1

Product Information

Material Number:	555055
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	10F7
Immunogen:	E-coli-expressed recombinant human MCP-1
Isotype:	Mouse IgG1, κ
Reactivity:	QC Testing: Human
Storage Buffer:	Aqueous buffered solution containing $\leq 0.09\%$ sodium azide.

Description

The 10F7 antibody reacts with human monocyte chemoattractant protein-1 (MCP-1), also known as monocyte chemoattractant and activating factor (MCAF). The immunogen used to generate the 10F7 hybridoma was E. coli-expressed recombinant human MCP-1.

This antibody is routinely tested by ELISA Capture. Other applications were tested at BD Biosciences Pharmingen during antibody development only or reported in the literature.

Preparation and Storage

The monoclonal antibody was purified from tissue culture supernatant or ascites by affinity chromatography. Store undiluted at 4° C.

Application Notes

Application

ELISA Capture	Routinely Tested
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Recommended Assay Procedure:

ELISA Capture: The purified 10F7 antibody is useful as a capture antibody for a sandwich ELISA for measuring human MCP-1 protein levels. The purified 10F7 antibody can be paired with the biotinylated anti-human MCP-1 monoclonal antibody 5D3-F7 (Cat. No. 554664) as the detection antibody with recombinant human MCP-1 (Cat. No. 554620) as the standard. Purified 10F7 antibody should be titrated 2-6 $\mu\text{g/ml}$ to determine the optimal concentration for ELISA capture. To obtain linear standard curves, doubling dilutions of human MCP-1 ranging from ~5000 to 15 pg/ml are recommended for inclusion in each ELISA plate. For specific methodology, please visit the chapter on ELISA in the Immune Function Handbook, which is posted on our website at www.bdbiosciences.com.

Note 1: This ELISA pair shows no cross-reactivity with any of the following chemokines tested (e.g., Human eotaxin, MCP-2, MCP-3, MCP-4, mouse MCP-1 and rat MCP-1).

Note 2: This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assay of serum samples. BD OptEIA™ ELISA Set Cat. No. 555179 and Kit 559017 are specially-formulated for serum cytokine measurement.

Suggested Companion Products

Catalog Number	Name	Size	Clone
554664	Biotin Mouse Anti-Human MCP-1	0.5 mg	5D3-F7
554620	Recombinant Human MCP-1	10 μg	(none)
555179	Human MCP-1 ELISA Set	20 tests	(none)
559017	Human MCP-1 ELISA Kit	2 plates	(none)

Product Notices

1. Since applications vary, each investigator should titrate the reagent to obtain optimal results.
2. Please refer to www.bdbiosciences.com/pharmingen/protocols for technical protocols.
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.

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References

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