

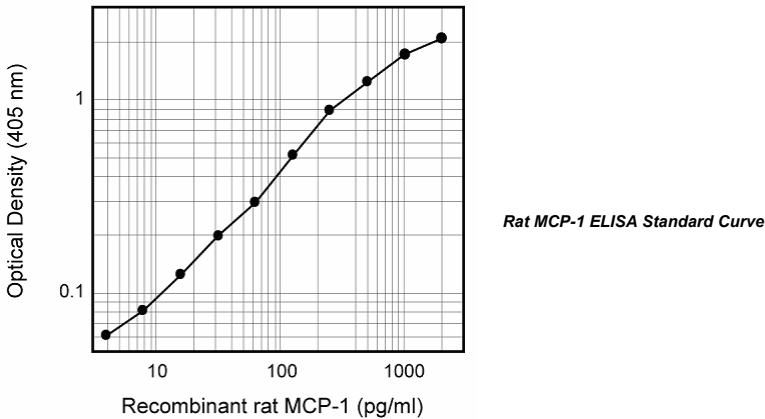
Technical Data Sheet

Purified Mouse Anti-Rat MCP-1

Product Information	
Material Number:	555072
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	C4
Immunogen:	Recombinant Rat MCP-1 Protein
Isotype:	Mouse IgG1
Reactivity:	QC Testing: Rat
Storage Buffer:	Aqueous buffered solution containing ≤0.09% sodium azide.

Description

The C4 antibody reacts with rat monocyte chemoattractant protein 1 (MCP-1). The C4 antibody shows no crossreactivity with rat MIP-1α, MIP-1β, RANTES, MIP-2 or KC. The immunogen used to generate this hybridoma was recombinant rat MCP-1 protein.



Preparation and Storage

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

Application	
ELISA Capture	Routinely Tested
Immunoprecipitation/Western blot	Reported

Recommended Assay Procedure:

ELISA Capture: The purified C4 antibody (Cat. No. 555072) can be used as the capture antibody in a sandwich ELISA for measuring rat MCP-1 protein levels in conjunction with the biotinylated B4 antibody (Cat. No. 555074) as the detecting antibody and recombinant rat MCP-1 protein (Cat. No. 555110) as the standard. This purified capture antibody should be titrated in the range of 2 to 10 µg/ml to determine its optimal concentration for ELISA. To obtain linear standard curves, doubling dilutions of rat MCP-1 protein ranging from ~2,000 to 5 pg/ml should be used. For specific methodology, please visit our web site, www.bdbiosciences.com, and go to the protocols section or the chapter on ELISA in the Immune Function Handbook. This ELISA pair shows no cross-reactivity with rat MIP-1α, MIP-1β, RANTES, MIP-2 or KC.

This ELISA pair is recommended primarily for measuring cytokine from experimental cell culture systems. These ELISA reagents are not recommended for assaying serum or plasma samples. For measuring MCP-1 in serum or plasma the rat MCP-1 BD OptEIA™ ELISA Set, Cat. No. 555130, is specially formulated and recommended.

BD Biosciences

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IP/WB: The C4 antibody has been reported to be useful for immunoprecipitation and Western blot. Please note that this application is not routinely tested at BD Biosciences Pharmingen.

Suggested Companion Products

Catalog Number	Name	Size	Clone
555074	Biotin Mouse Anti-Rat MCP-1	0.5 mg	B4
555110	Recombinant Rat MCP-1	5 µg	(none)
555130	Rat MCP-1 ELISA Set	20 tests	(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.

References

Sakanashi Y, Takeya M, Yoshimura T, Feng L, Morioka T, Takahashi K. Kinetics of macrophage subpopulations and expression of monocyte chemoattractant protein-1 (MCP-1) in bleomycin-induced lung injury of rats studied by a novel monoclonal antibody against rat MCP-1. *J Leukoc Biol.* 1994; 56(6):741-750. (Clone-specific: ELISA, Immunoprecipitation, Western blot)

Yoshimura T, Takeya M, Takahashi K. Molecular cloning of rat monocyte chemoattractant protein-1 (MCP-1) and its expression in rat spleen cells and tumor cell lines. *Biochem Biophys Res Commun.* 1991; 174(2):504-509.(Biology)