

## Technical Data Sheet

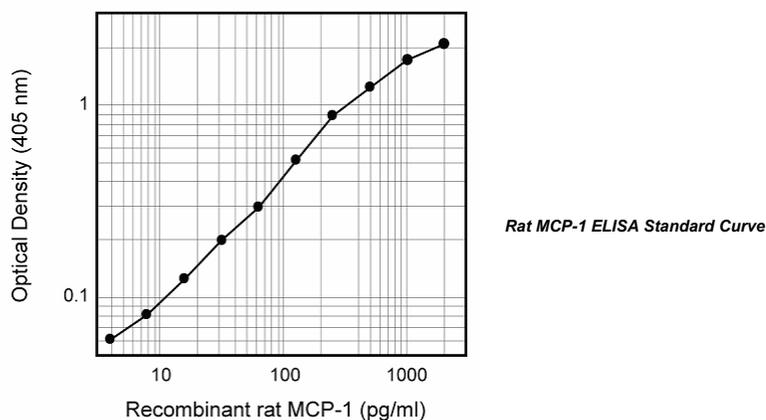
## Purified Mouse Anti-Rat MCP-1

## 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-1 $\alpha$ , MIP-1 $\beta$ , RANTES, MIP-2 or KC. The immunogen used to generate this hybridoma was recombinant rat MCP-1 protein.



Rat MCP-1 ELISA Standard Curve

## 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
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  $\mu$ g/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](http://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-1 $\alpha$ , MIP-1 $\beta$ , 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

<u>Catalog Number</u>	<u>Name</u>	<u>Size</u>	<u>Clone</u>
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](http://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)