

Technical Data Sheet

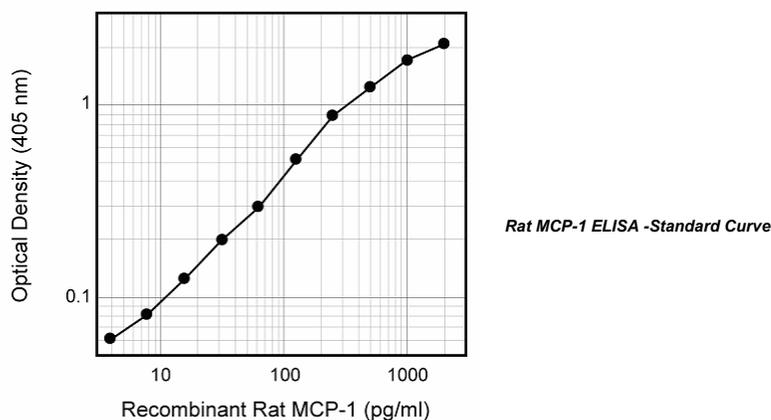
Biotin Mouse Anti-Rat MCP-1

Product Information

Material Number:	555074
Size:	0.5 mg
Concentration:	0.5 mg/ml
Clone:	B4
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 B4 antibody reacts with rat Monocyte Chemoattractant Protein 1 (MCP-1). 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.

The antibody was conjugated with biotin under optimum conditions, and unreacted biotin was removed.

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

Application Notes

Application

ELISA Detection	Routinely Tested
Immunoprecipitation	Reported

Recommended Assay Procedure:

ELISA Detection: The biotinylated B4 antibody (Cat. No. 555074) can be used as the detection antibody in a sandwich ELISA for measuring rat MCP-1 protein levels in conjunction with purified C4 antibody (Cat. No. 555072) as the capture antibody and recombinant rat MCP-1 protein (Cat. No. 555110) as the standard. This biotinylated detection antibody should be titrated in the range of 0.5 to 2 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 are recommended for inclusion in each ELISA plate. For specific methodology, please visit the protocols section or chapter on ELISA in the Immune Function Handbook, both of which are posted on our web site, www.bdbiosciences.com. This ELISA pair shows no cross-reactivity with rat MIP-1α, MIP-1β, RANTES, MIP-2 or KC.

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Note: 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.

IP: The B4 antibody has been reported to be useful for immunoprecipitation studies. 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>
555072	Purified Mouse Anti-Rat MCP-1	0.5 mg	C4
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)