

Datasheet: MCA6219B

Description:	MOUSE ANTI HUMAN CCL2:Biotin
Specificity:	CCL2
Other names:	MCP-1
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	AA03-4H10
Isotype:	IgG1
Quantity:	0.1 mg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			1.0 ug/ml

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

Target Species	Human
Product Form	Purified IgG conjugated to Biotin - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein G from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	<i>E. coli</i> derived recombinant human CCL2 (Gln24-Thr99)

**External Database
Links**

UniProt:

[P13500](#) [Related reagents](#)

Entrez Gene:

[6347](#) CCL2 [Related reagents](#)

Synonyms

MCP1, SCYA2

Fusion Partners

Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0

Specificity

Mouse anti Human CCL2 antibody, clone AA03-4H10, recognizes C-C motif chemokine 2, also known as MCP1, HC11, and MCAF. CCL2 is a constitutively expressed chemokine, which is upregulated during the inflammatory response and promotes recruitment of immune cells to specific sites. Many cell types can produce CCL2, including endothelial, epithelial, myeloid, smooth muscle cells and fibroblasts, and CCL2 is able to recruit monocytes, basophils, T lymphocytes and NK cells ([Lim et al. 2016](#)). CCL2 promotes cancer development and metastasis through binding to the cognate receptor CCR2, and CCL2-CCR2 signaling has multiple tumorigenic roles. The tumor microenvironment itself produces CCL2, which facilitates the accumulation of tumor associated macrophages (TAMs), which have immune suppressive and tumor promoting functions ([Yoshimura et al. 2018](#)).

The biotinylated Mouse anti Human CCL2 antibody, clone AA03-4H10 (MCA6219B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human CCL2 antibody, clone AA07-3B8 ([MCA6218GA](#)) as the capture antibody.

Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10041 available at:
10041: <https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf>

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

[MOUSE ANTI HUMAN CCL2 \(MCA6218GA\)](#)

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To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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