

Datasheet: MCA6219B

**BATCH NUMBER 100005230**

<b>Description:</b>	MOUSE ANTI HUMAN CCL2:Biotin
<b>Specificity:</b>	CCL2
<b>Other names:</b>	MCP-1
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	AA03-4H10
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://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.

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

Store at +4°C or at -20°C if preferred.  
Storage in frost-free freezers is not recommended.  
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

**Guarantee**

12 months from date of despatch

**Health And Safety Information**

Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA6219B>  
10041

**Regulatory**

For research purposes only

## Related Products

### Recommended Useful Reagents

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

**North & South America**    Tel: +1 800 265 7376  
Fax: +1 919 878 3751  
Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**    Tel: +44 (0)1865 852 700  
Fax: +44 (0)1865 852 739  
Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**    Tel: +49 (0) 89 8090 95 21  
Fax: +49 (0) 89 8090 95 50  
Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

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

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