

Datasheet: MCA6221B

Description:	MOUSE ANTI HUMAN CCL3:Biotin
Specificity:	CCL3
Other names:	MIP-1a
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	F01.1-3E5
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 full length CCL3 (Ala27-Ala92)

**External Database
Links**

UniProt:

[P10147](#) [Related reagents](#)

Entrez Gene:

[6348](#) CCL3 [Related reagents](#)

Synonyms

G0S19-1, MIP1A, SCYA3

Fusion Partners

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

Specificity

Mouse anti Human CCL3 antibody, clone H03-5C10, recognizes C-C motif chemokine 3 (CCL3) also known as G0/G1 switch regulatory protein 19-1 and Macrophage inflammatory protein 1 alpha (MIP1 α). CCL3 is an inflammatory cytokine with the ability to activate chemotactic mobilization of monocyte and lymphocyte cells. It also plays a role in regulating the proliferation of hematopoietic stem/progenitor cells ([Baba & Mukaida 2014](#)). The receptors of CCL3 are the G-protein coupled receptors CCR1, CCR5 and the D6 receptor in humans. Signaling via CCR1 and CCR5, CCL3 is able to stimulate lymphocyte recruitment to sites of infection, as well as CD8+ T cells to active lymph nodes ([Staversky et al. 2018](#)).

Expression levels of CCL3 have been reported to increase in patients with colorectal cancer, independently of tumor stage. This has been shown to be concurrent with the upregulated expression of CCR1 and CCR5 ([López et al. 2018](#)). CCL3 has also been implicated in various pathologies related to microenvironmental dysfunction, including myelodysplastic syndrome, metastatic disease of renal cell carcinoma and B cell lymphomas ([Staversky et al. 2018](#)).

The biotinylated Mouse anti Human CCL3 antibody, clone F01.1-3E5 (MCA6221B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human CCL3 antibody, clone H03-5C10 ([MCA6220GA](#)) 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:
<https://www.bio-rad-antibodies.com/SDS/MCA6221B>
10041

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

MOUSE ANTI HUMAN CCL3 (MCA6220GA)

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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

'M384102:210513'

Printed on 18 Jan 2024

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