

Datasheet: MCA6193B

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|----------------------|---------------------------------------|
| Description: | MOUSE ANTI HUMAN INTERLEUKIN-8:Biotin |
| Specificity: | IL-8 |
| Other names: | CXCL8 |
| Format: | Biotin |
| Product Type: | Monoclonal Antibody |
| Clone: | 8C9E2 |
| Isotype: | IgG2b |
| 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.

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|---------------------------------------|---|
| 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 interleukin-8 (Ser28-Ser99) |

**External Database
Links**

UniProt:

[P10145](#) [Related reagents](#)

Entrez Gene:

[3576](#) IL8 [Related reagents](#)

Synonyms

CXCL8

Fusion Partners

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

Specificity

Mouse anti Human interleukin-8 antibody, clone 8C9E2 recognizes interleukin-8 (IL-8) also known as C-X-C motif chemokine 8, emoctakin and granulocyte chemotactic protein 1. IL-8 exists as a 77 amino acid signaling protein in non-immune cells or as a 72 amino acid protein in immune cells such as monocytes and macrophages. Expression of IL-8 is primarily regulated by NF-κB, but has also been noted to be influenced by inflammatory signals, environmental stresses and steroid hormones ([Brat et al. 2005](#)).

IL-8 elicits its biological function through its G-protein coupled receptors CXCR1 and CXCR2. Upon activation of these receptors a range of signaling pathways can be initiated such as PI3K, AKT, mTOR and ARP2/3. Through this activation leukocyte function and migration can be mediated ([Gonzalez-Aparicio & Alfaro 2019](#)). IL-8 expression is unregulated in tumor cells, which thought to be a response to chemotherapeutic interventions or tumor environmental stressors such as hypoxia ([Vaugh & Wilson 2008](#)).

The biotinylated Mouse anti Human interleukin-8 antibody, clone 8C9E2 (MCA6193B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human interleukin-8 antibody, clone 4F8A4 (MCA6192GA) 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 INTERLEUKIN-8 \(MCA6192GA\)](#)

ELISA Matched Pair - Capture Antibody

[MOUSE ANTI HUMAN INTERLEUKIN-8 \(MCA6192GA\)](#)

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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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