

## Datasheet: MCA6193B

<b>Description:</b>	MOUSE ANTI HUMAN INTERLEUKIN-8:Biotin
<b>Specificity:</b>	IL-8
<b>Other names:</b>	CXCL8
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	8C9E2
<b>Isotype:</b>	IgG2b
<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 Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ) 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 full length interleukin-8 (Ser28-Ser99)

**External Database  
Links**

**UniProt:**

[P10145](#)   [Related reagents](#)

**Entrez Gene:**

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

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**Synonyms**

CXCL8

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**Fusion Partners**

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

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**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.

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**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.

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**Guarantee**

12 months from date of despatch

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10041 available at:  
<https://www.bio-rad-antibodies.com/SDS/MCA6193B>  
10041

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**Regulatory**

For research purposes only

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## 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](https://bio-rad-antibodies.com/datasheets)

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