

## Datasheet: MCA6215B

<b>Description:</b>	MOUSE ANTI HUMAN INTERLEUKIN-34:Biotin
<b>Specificity:</b>	IL-34
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	C03-5C3
<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-34 (Asn21-Pro242)
<b>External Database Links</b>	<b>UniProt:</b>

[Q6ZMJ4](#) [Related reagents](#)

**Entrez Gene:**

[146433](#) IL34 [Related reagents](#)

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<b>Synonyms</b>	C16orf77
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<b>Fusion Partners</b>	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
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<b>Specificity</b>	<p><b>Mouse anti Human interleukin-34 antibody, clone C03-5C3</b>, recognizes interleukin-34 (IL-34), also known as C16orf77. IL-34 is an inflammatory cytokine with the ability to induce macrophage activation and migration (<a href="#">Zhou et al. 2016</a>). This protein is produced by multiple cell types including endothelial cells, adipocytes, neurons, macrophages, fibroblasts, and epithelial cells (<a href="#">Franzè et al. 2020</a>). IL-34 is involved with development and maintenance of multiple macrophage subsets, including osteoclasts, Langerhans cells, and microglia. If macrophages are cultured in the presence of IL-34, these cells show immunosuppressive properties (<a href="#">Lindau et al. 2018</a>). Due to its inflammatory role, IL-34 dysregulation can be involved with inflammatory bowel disease, rheumatoid arthritis, heart failure, and kidney diseases (<a href="#">Cheng et al. 2017</a>). IL-34 is overexpressed in several cancer types, and tumor cells can produce and respond to this cytokine (<a href="#">Franzè et al. 2020</a>)</p> <p>The biotinylated Mouse anti Human interleukin-34 antibody, clone C03-5C3 (<b>MCA6215B</b>) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human interleukin-34 antibody, clone D02-3A7 (<a href="#">MCA6214GA</a>) as the capture antibody.</p>
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<b>Storage</b>	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>
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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: 10041: <a href="https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf">https://www.bio-rad-antibodies.com/uploads/MSDS/10041.pdf</a>
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Useful Reagents

[MOUSE ANTI HUMAN INTERLEUKIN-34 \(MCA6214GA\)](#)

**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**

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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)  
'M384488:210513'

**Printed on 21 Mar 2022**

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