

## Datasheet: MCA6215B

**BATCH NUMBER 100005155**

<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</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 full length interleukin-34 (Asn21-Pro242)

**External Database  
Links**

**UniProt:**

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

**Entrez Gene:**

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

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**Synonyms**

C16orf77

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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-34 antibody, clone C03-5C3**, recognizes interleukin-34 (IL-34), also known as C16orf77. IL-34 is an inflammatory cytokine with the ability to induce macrophage activation and migration ([Zhou et al. 2016](#)). This protein is produced by multiple cell types including endothelial cells, adipocytes, neurons, macrophages, fibroblasts, and epithelial cells ([Franzè et al. 2020](#)). 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 ([Lindau et al. 2018](#)). Due to its inflammatory role, IL-34 dysregulation can be involved with inflammatory bowel disease, rheumatoid arthritis, heart failure, and kidney diseases ([Cheng et al. 2017](#)). IL-34 is overexpressed in several cancer types, and tumor cells can produce and respond to this cytokine ([Franzè et al. 2020](#))

The biotinylated Mouse anti Human interleukin-34 antibody, clone C03-5C3 (**MCA6215B**) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human interleukin-34 antibody, clone D02-3A7 ([MCA6214GA](#)) as the capture antibody.

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**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.

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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/MCA6215B>  
10041

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Useful Reagents

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

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

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**Printed on 18 Jan 2024**

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