

Datasheet: MCA6215B

Description:	MOUSE ANTI HUMAN INTERLEUKIN-34:Biotin
Specificity:	IL-34
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	C03-5C3
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.

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-34 (Asn21-Pro242)
External Database Links	UniProt:

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

Entrez Gene:

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

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	<p>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)</p> <p>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.</p>
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Storage	<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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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 \(MCA6214GA\)](#)

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Fax: +1 919 878 3751

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Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: 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

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