

Datasheet: MCA6214GA

Description:	MOUSE ANTI HUMAN INTERLEUKIN-34
Specificity:	IL-34
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	D02-3A7
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 - 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)
Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 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

Fusion Partners

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

Specificity

Mouse anti Human interleukin-34 antibody, clone D02-3A7, 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 purified Mouse anti Human interleukin-34 antibody, clone D02-3A7 (MCA6214GA) can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human interleukin-34 antibody, clone C03-5C3 ([MCA6215B](#)) as the detection 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 #10040 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA6214GA>
10040

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Rabbit Anti Mouse IgG (STAR8...)	DyLight@800
Goat Anti Mouse IgG (STAR76...)	RPE
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos. , HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight@488 , DyLight@680 , DyLight@800 , FITC , HRP
Goat Anti Mouse IgG (STAR70...)	FITC

Recommended Negative Controls

[MOUSE IgG2b NEGATIVE CONTROL \(MCA691\)](#)

Recommended Useful Reagents

[MOUSE ANTI HUMAN INTERLEUKIN-34:Biotin \(MCA6215B\)](#)

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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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