

## Datasheet: MCA6214GA

**BATCH NUMBER 100005154**

<b>Description:</b>	MOUSE ANTI HUMAN INTERLEUKIN-34
<b>Specificity:</b>	IL-34
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	D02-3A7
<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 - 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> )
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 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> <a href="#">Q6ZMJ4</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">146433</a> IL34 <a href="#">Related reagents</a>
<b>Synonyms</b>	C16orf77
<b>Fusion Partners</b>	Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0
<b>Specificity</b>	<p><b>Mouse anti Human interleukin-34 antibody, clone D02-3A7</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 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 (<a href="#">MCA6215B</a>) as the detection antibody.</p>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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.</p>
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	<p>Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA6214GA">https://www.bio-rad-antibodies.com/SDS/MCA6214GA</a></p> <p>10040</p>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

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

Goat Anti Mouse IgG IgA IgM (STAR87...) [HRP](#)

Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight®488</a> , <a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®680</a> , <a href="#">DyLight®800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

## Recommended Useful Reagents

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

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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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