

## Datasheet: MCA6246GA

**BATCH NUMBER 100005148**

<b>Description:</b>	MOUSE ANTI HUMAN INTERLEUKIN-31
<b>Specificity:</b>	IL-31
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	A01-1E4/A09.2-2E6
<b>Isotype:</b>	IgG1
<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-31 (Ser24-Thr164)

<b>External Database Links</b>	<b>UniProt:</b> <a href="#">Q6EBC2</a> <a href="#">Related reagents</a>
	<b>Entrez Gene:</b> <a href="#">386653</a> IL31 <a href="#">Related reagents</a>
<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-31 antibody, clone A01-1E4/A09.2-2E6</b>, recognizes interleukin-31 (IL-31), a member of the gp130/IL-6 family of proteins. It is a cytokine that has pro-inflammatory properties. IL-31 is mainly produced by CD4<sup>+</sup> T helper and mast cells (<a href="#">Di Salvo et al. 2018</a>). IL-31 acts upon both immune and non-immune cells, regulating signaling of pro-inflammatory cytokines, cell proliferation and tissue remodeling. The effect of IL-31 is mediated by its receptor IL-31RA. Upon binding to this receptor, the JAK/STAT, PI3K/AKT and MAPK pathways can be activated (<a href="#">Zhang et al. 2008</a>).</p> <p>IL-31 has been implicated in chronic inflammation, with elevated levels detected in various skin diseases, Crohn's disease and ulcerative colitis. Higher IL-31 levels in serum have also been positively correlated with asthma severity (<a href="#">Lai et al. 2016</a>).</p> <p>The purified Mouse anti Human interleukin-31 antibody, clone A01-1E4/A09.2-2E6 (MCA6246GA) can be used as a capture antibody in a sandwich ELISA with the biotinylated Mouse anti Human interleukin-31 antibody, clone A12-2F7 (<a href="#">MCA6247B</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/MCA6246GA">https://www.bio-rad-antibodies.com/SDS/MCA6246GA</a></p> <p>10040</p>
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>

Goat Anti Mouse IgG (STAR70...) [FITC](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight®488](#), [DyLight®550](#),  
[DyLight®650](#), [DyLight®680](#), [DyLight®800](#),  
[FITC](#), [HRP](#)  
Rabbit Anti Mouse IgG (STAR9...) [FITC](#)  
Goat Anti Mouse IgG (STAR77...) [HRP](#)  
Goat Anti Mouse IgG (Fc) (STAR120...) [FITC](#), [HRP](#)

## Recommended Useful Reagents

[MOUSE ANTI HUMAN INTERLEUKIN-31:Biotin \(MCA6247B\)](#)

<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)  
'M378813:210304'

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