

## Datasheet: MCA6247B

<b>Description:</b>	MOUSE ANTI HUMAN INTERLEUKIN-31:Biotin
<b>Specificity:</b>	IL-31
<b>Format:</b>	Biotin
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	A12-2F7
<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> ) 1% Bovine Serum Albumin
<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>

**Entrez Gene:**

[386653](#)   IL31   [Related reagents](#)

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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-31 antibody, clone A12-2F7**, 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 ([Di Salvo et al. 2018](#)). 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 ([Zhang et al. 2008](#)).

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 ([Lai et al. 2016](#)).

The biotinylated Mouse anti Human interleukin-31 antibody, clone A12-2F7 (MCA6247B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human interleukin-31 antibody, clone A01-1E4/A09.2-2E6 ([MCA6246GA](#)) as the capture antibody.

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**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.

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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/MCA6247B>  
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**Regulatory**   For research purposes only

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## Related Products

### Recommended Useful Reagents

[MOUSE ANTI HUMAN INTERLEUKIN-31 \(MCA6246GA\)](#)

**North & South**   Tel: +1 800 265 7376

**America**   Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto: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](https://www.bio-rad-antibodies.com/datasheets)

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