

Datasheet: MCA6246GA

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

**External Database
Links**

UniProt:

[Q6EBC2](#)

[Related reagents](#)

Entrez Gene:

[386653](#)

IL31

[Related reagents](#)

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-31 antibody, clone A01-1E4/A09.2-2E6, 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⁺ 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).</p>
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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 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 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.
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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
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA6246GA 10040
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Regulatory	For research purposes only
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Related Products

Recommended Secondary Antibodies

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

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

Goat Anti Mouse IgG (STAR76...) [RPE](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Rabbit Anti Mouse IgG (STAR13...)	HRP
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC , HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR77...)	HRP
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos. , DyLight®488 , DyLight®550 , DyLight®650 , DyLight®680 , DyLight®800 , FITC , HRP

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: 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	Europe	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com
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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
'M384127:210513'

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