

Datasheet: MCA6247B

BATCH NUMBER 100005149

Description:	MOUSE ANTI HUMAN INTERLEUKIN-31:Biotin
Specificity:	IL-31
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	A12-2F7
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	0.09% Sodium Azide (NaN ₃)
Stabilisers	1% Bovine Serum Albumin
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

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⁺ 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.

Storage

Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
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.

Guarantee

12 months from date of despatch

**Health And Safety
Information**

Material Safety Datasheet documentation #10041 available at:
<https://www.bio-rad-antibodies.com/SDS/MCA6247B>
10041

Regulatory

For research purposes only

Related Products

Recommended Useful Reagents

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

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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
'M378814:210304'

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