

Datasheet: MCA6231B

BATCH NUMBER 100005235

Description:	MOUSE ANTI HUMAN GM-CSF:Biotin
Specificity:	GM-CSF
Format:	Biotin
Product Type:	Monoclonal Antibody
Clone:	E04-5B11
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 conjugated to Biotin - 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) 1% Bovine Serum Albumin
Approx. Protein Concentrations	IgG concentration 0.1 mg/ml
Immunogen	<i>E. coli</i> . derived recombinant human GM-CSF (Ala18-Glu144)

External Database
Links

UniProt:

[P04141](#)

[Related reagents](#)

Entrez Gene:

[1437](#)

CSF2

[Related reagents](#)

Synonyms

GMCSF

Fusion Partners

Cell fusion between immunized BALB/c mouse spleen cells and mouse myeloma SP2/0

Specificity

Mouse anti Human GM-CSF antibody, clone E04-5B11, recognizes Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF) also known as colony stimulating factor 2. GM-CSF is a cytokine and acts as a hematopoietic growth factor and immune modulator of various immune cells. It is produced by immune cells including T cells and macrophages as well as endothelial and fibroblast cells. GM-CSF has various functions such as roles in recruiting circulating neutrophils, monocytes and lymphocytes ([Shi et al. 2006](#)). It is also involved in the maturation and activation of neutrophils and macrophages to induce microbial activity and the production of cytokines. GM-CSF elicits these functions through signaling via its receptor GM-CSFR to activate NF-kappaB or STAT5 signaling pathways ([Dougan et al. 2019](#)).

The biotinylated Mouse anti Human GM-CSF antibody, clone E04-5B11 (MCA6231B) can be used as a detection antibody in a sandwich ELISA with the purified Mouse anti Human GM-CSF antibody, clone E01-1B6 ([MCA6230GA](#)) 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/MCA6231B>
10041

Regulatory

For research purposes only

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

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)

'M378808:210304'

Printed on 26 Apr 2025