

Datasheet: MCA6231B

BATCH NUMBER 100006830

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	0.09% Sodium Azide (NaN ₃)
Stabilisers	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](#)).

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 as the capture 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.

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

**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

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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://www.bio-rad-antibodies.com/datasheets)

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