

## Datasheet: MCA1292

**BATCH NUMBER 170203**

<b>Description:</b>	RAT ANTI MOUSE IgG3
<b>Specificity:</b>	IgG3 HEAVY CHAIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LO-MG3-13
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			5ug/ml (coating)
Immunoprecipitation			▪	
Western Blotting			▪	

Where this antibody 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 antibody for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Mouse
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on mouse IgG3/Sepharose 4B from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.1% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein</b>	IgG concentration 1 mg/ml

## Concentrations

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**Immunogen** Polyclonal mouse IgG

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## External Database Links

### UniProt:

[P03987](#)    [Related reagents](#)

### Entrez Gene:

[380795](#)    AI324046    [Related reagents](#)

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**RRID** AB\_321848

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**Fusion Partners** Spleen cells from immunized Lou/c rats were fused with cells of the rat IR983F myeloma cell line.

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**Specificity** **Rat anti Mouse IgG3 antibody, clone LO-MG3-13** recognizes murine IgG3 (gamma heavy chain) and does not cross react with other murine immunoglobulin classes or subclasses.

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**ELISA** This antibody may be used as a coating antibody in a sandwich ELISA in combination with LO-MG3-7 ([MCA423B](#)) and Streptavidin:HRP ([STAR5B](#)) as the detection reagents.

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## References

1. Denis, O. *et al.* (1993) Resting B cells can act as antigen presenting cells in vivo and induce antibody responses. [Int Immunol. 5 \(1\): 71-8.](#)
  2. Savignac, M. *et al.* (2010) Increased B cell proliferation and reduced Ig production in DREAM transgenic mice. [J Immunol. 185 \(12\): 7527-36.](#)
  3. Banerjee, K. *et al.* (2009) Enzymatic removal of mannose moieties can increase the immune response to HIV-1 gp120 *in vivo*. [Virology. 389 \(1-2\): 108-21.](#)
  4. Banerjee, K. *et al.* (2012) Occluding the mannose moieties on human immunodeficiency virus type 1 gp120 with griffithsin improves the antibody responses to both proteins in mice. [AIDS Res Hum Retroviruses. 28 \(2\): 206-14.](#)
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**Storage** Store at +4°C or at -20°C if preferred.

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.

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**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/MCA1292>  
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**Regulatory** For research purposes only

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## Related Products

## Recommended Secondary Antibodies

Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@800</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight@800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>

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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://bio-rad-antibodies.com/datasheets)  
'M365096:200529'

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