

## Datasheet: MCA1588

**BATCH NUMBER 180220**

<b>Description:</b>	RAT ANTI MOUSE IgG2a HEAVY CHAIN
<b>Specificity:</b>	IgG2a HEAVY CHAIN
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LO-MG2a-9
<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 as coating antibody
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 from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.1% Sodium Azide
<b>Approx. Protein</b>	IgG concentration 1 mg/ml

## Concentrations

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**Immunogen** Purified IgG2a from Balb/c mice. PTR

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## External Database Links

### UniProt:

[P01865](#) [Related reagents](#)

[P01864](#) [Related reagents](#)

[P01863](#) [Related reagents](#)

### Entrez Gene:

[380793](#) Igh-1a [Related reagents](#)

[380793](#) Igh-1a [Related reagents](#)

[380793](#) Igh-1a [Related reagents](#)

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**RRID** AB\_321821

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

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**Specificity** **Rat anti Mouse IgG2a Heavy Chain antibody, clone LO-MG2a-9** recognizes the mouse gamma 2a heavy chain, binding to all allotypes and does not cross-react with other murine immunoglobulin classes or subclasses.

The avidity of Rat anti Mouse IgG2a Heavy Chain antibody, clone LO-MG2a-9 for murine IgG2a =  $2.5 \times 10^9 \text{M}^{-1}$ .

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**ELISA** This antibody may be used as a coating antibody in sandwich ELISA in combination with LO-MG2a-7 ([MCA421P](#)) as the detection reagent.

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## References

1. Lahat, G. *et al.* (2010) Vimentin is a novel anti-cancer therapeutic target; insights from in vitro and in vivo mice xenograft studies. [PLoS One. 5\(4\):e10105.](#)
2. Savignac, M. *et al.* (2010) Increased B cell proliferation and reduced Ig production in DREAM transgenic mice. [J Immunol. 185:7527-36.](#)
3. Echeverria, P.C. *et al.* (2006) Potent antigen-specific immunity to Toxoplasma gondii in adjuvant-free vaccination system using Rop2-Leishmania infantum Hsp83 fusion protein. [Vaccine. 24: 4102-10.](#)
4. Hajek, A.R. *et al.* (2008) 12/15-Lipoxygenase deficiency protects mice from allergic airways inflammation and increases secretory IgA levels. [J Allergy Clin Immunol. 122: 633-9.e3.](#)
5. Carew, J.S. *et al.* (2015) Targeting Survivin Inhibits Renal Cell Carcinoma Progression and Enhances the Activity of Temsirolimus. [Mol Cancer Ther. 14 \(6\): 1404-13.](#)
6. Blodörn, K. *et al.* (2014) Vaccine safety and efficacy evaluation of a recombinant bovine respiratory syncytial virus (BRSV) with deletion of the SH gene and subunit vaccines based on recombinant human RSV proteins: N-nanorings, P and M2-1, in calves with maternal antibodies. [PLoS One. 9 \(6\): e100392.](#)
7. Islam, S. *et al.* (2020) Resistance to histone deacetylase inhibitors confers hypersensitivity to oncolytic reovirus therapy. [Blood Adv. 4 \(20\): 5297-310.](#)

<b>Storage</b>	Store at +4°C or at -20°C if preferred.  This product should be stored undiluted.  Storage in frost free freezers is not recommended. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.
<b>Guarantee</b>	12 months from date of despatch
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1588">https://www.bio-rad-antibodies.com/SDS/MCA1588</a> 10040
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	<a href="#">DyLight®800</a>
Rabbit Anti Rat IgG (STAR17...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR72...)	<a href="#">HRP</a>
Goat Anti Rat IgG (STAR69...)	<a href="#">FITC</a>
Goat Anti Rat IgG (STAR73...)	<a href="#">RPE</a>
Rabbit Anti Rat IgG (STAR21...)	<a href="#">HRP</a>
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	<a href="#">DyLight®550</a> , <a href="#">DyLight®650</a> , <a href="#">DyLight®800</a>
Goat Anti Rat IgG (STAR131...)	<a href="#">Alk. Phos.</a> , <a href="#">Biotin</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://www.bio-rad-antibodies.com/datasheets)

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