

Datasheet: MCA1588

BATCH NUMBER 150758

Description:	RAT ANTI MOUSE IgG2a HEAVY CHAIN
Specificity:	IgG2a HEAVY CHAIN
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	LO-MG2a-9
Isotype:	IgG1
Quantity:	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
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.

Target Species	Mouse
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography from tissue culture supernatant
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.1% Sodium Azide
Approx. Protein	IgG concentration 1 mg/ml

Concentrations

Immunogen Purified IgG2a from Balb/c mice. PTR

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](#)

RRID AB_321821

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

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 = $2.5 \times 10^9 \text{M}^{-1}$.

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

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.](#)

Storage	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.
Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA1588 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Rabbit Anti Rat IgG (STAR16...)	DyLight®800
Rabbit Anti Rat IgG (STAR17...)	FITC
Goat Anti Rat IgG (STAR72...)	HRP
Goat Anti Rat IgG (STAR69...)	FITC
Goat Anti Rat IgG (STAR73...)	RPE
Rabbit Anti Rat IgG (STAR21...)	HRP
Goat Anti Rat IgG (MOUSE ADSORBED) (STAR71...)	DyLight®550 , DyLight®650 , DyLight®800
Goat Anti Rat IgG (STAR131...)	Alk. Phos. , Biotin

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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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