Datasheet: MCA1588F

Description:	RAT ANTI MOUSE IgG2a HEAVY CHAIN:FITC
Specificity:	IgG2a HEAVY CHAIN
Format:	FITC
Product Type:	Monoclonal Antibody
Clone:	LO-MG2a-9
Isotype:	IgG1
Quantity:	0.5 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	▪			5ug/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

Mouse

Product Form

Purified IgG conjugated to Fluorescein Isothiocyanate Isomer 1 (FITC) - liquid

Max Ex/Em

Fluorophore	Excitation Max (nm)	Emission Max (nm)
FITC	490	525

Preparation

Purified IgG prepared by affinity chromatography from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% sodium azide (NaN_3)
50% glycerol

Approx. Protein Concentrations

IgG concentration 1 mg/ml

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_322876
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 x $10^{9}M^{-1}$.
References	1. 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. 2. 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. 3. Savignac. M. *et al.* (2010) Increased B cell proliferation and reduced Ig production in DREAM transgenic mice. J Immunol. 185:7527-36. 4. 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. 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. Islam, S. *et al.* (2020) Resistance to histone deacetylase inhibitors confers hypersensitivity to oncolytic reovirus therapy. Blood Adv. 4 (20): 5297-310.
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. This product is photosensitive and should be protected from light.

Guarantee	12 months from date of despatch
Health And Safety Information	Material Safety Datasheet documentation #10328 available at: https://www.bio-rad-antibodies.com/SDS/MCA1588F 10328
Regulatory	For research purposes only

Related Products

Recommended Useful Reagents

MOUSE SEROBLOCK FcR (BUF041A)
MOUSE SEROBLOCK FcR (BUF041B)

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

'M410754:221028'

Printed on 11 Sep 2023

© 2023 Bio-Rad Laboratories Inc | Legal | Imprint