

# Datasheet: MCA1588P

**BATCH NUMBER 180117**

<b>Description:</b>	RAT ANTI MOUSE IgG2a HEAVY CHAIN:HRP
<b>Specificity:</b>	IgG2a HEAVY CHAIN
<b>Format:</b>	HRP
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LO-MG2a-9
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunohistology - Frozen			▪	
Immunohistology - Paraffin			▪	
ELISA	▪			250ng/ml
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 conjugated to Horseradish Peroxidase (HRP) - 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>	0.01% Thiomersal 50% Glycerol
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml

Immunogen	Purified IgG2a from Balb/c mice. PTR
External Database Links	<p><b>UniProt:</b></p> <p><a href="#">P01865</a>      <a href="#">Related reagents</a></p> <p><a href="#">P01864</a>      <a href="#">Related reagents</a></p> <p><a href="#">P01863</a>      <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b></p> <p><a href="#">380793</a>    Igh-1a    <a href="#">Related reagents</a></p> <p><a href="#">380793</a>    Igh-1a    <a href="#">Related reagents</a></p> <p><a href="#">380793</a>    Igh-1a    <a href="#">Related reagents</a></p>
RRID	AB_322872
Fusion Partners	Spleen cells from an immunized LOU/c rat were fused with cells of the IR983F rat myeloma cell line.
Specificity	<p><b>Rat anti Mouse IgG2a Heavy Chain antibody, clone LO-MG2a-9</b> recognizes the mouse gamma 2a heavy chain, binding to all allotypes and does not cross-react with other murine immunoglobulin classes or subclasses.</p> <p>The avidity of Rat anti Mouse IgG2a Heavy Chain antibody, clone LO-MG2a-9 for murine IgG2a = <math>2.5 \times 10^9 \text{M}^{-1}</math>.</p>
References	<ol style="list-style-type: none"> <li>1. Lahat, G. <i>et al.</i> (2010) Vimentin is a novel anti-cancer therapeutic target; insights from in vitro and in vivo mice xenograft studies. <a href="#">PLoS One. 5(4):e10105.</a></li> <li>2. Savignac, M. <i>et al.</i> (2010) Increased B cell proliferation and reduced Ig production in DREAM transgenic mice. <a href="#">J Immunol. 185:7527-36.</a></li> <li>3. Echeverria, P.C. <i>et al.</i> (2006) Potent antigen-specific immunity to Toxoplasma gondii in adjuvant-free vaccination system using Rop2-Leishmania infantum Hsp83 fusion protein. <a href="#">Vaccine. 24: 4102-10.</a></li> <li>4. Hajek, A.R. <i>et al.</i> (2008) 12/15-Lipoxygenase deficiency protects mice from allergic airways inflammation and increases secretory IgA levels. <a href="#">J Allergy Clin Immunol. 122: 633-9.e3.</a></li> <li>5. Carew, J.S. <i>et al.</i> (2015) Targeting Survivin Inhibits Renal Cell Carcinoma Progression and Enhances the Activity of Temsirolimus. <a href="#">Mol Cancer Ther. 14 (6): 1404-13.</a></li> <li>6. Blodörn, K. <i>et al.</i> (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. <a href="#">PLoS One. 9 (6): e100392.</a></li> <li>7. Islam, S. <i>et al.</i> (2020) Resistance to histone deacetylase inhibitors confers hypersensitivity to oncolytic reovirus therapy. <a href="#">Blood Adv. 4 (20): 5297-310.</a></li> </ol>
Storage	<p>Store at +4°C or at -20°C if preferred.</p> <p>This product should be stored undiluted.</p>

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.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10097 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA1588P">https://www.bio-rad-antibodies.com/SDS/MCA1588P</a> 10097
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Useful Reagents

[AbGUARD® HRP STABILIZER PLUS \(BUF052A\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052B\)](#)

[AbGUARD® HRP STABILIZER PLUS \(BUF052C\)](#)

[TMB CORE \(BUF056A\)](#)

[TMB CORE+ \(BUF062A\)](#)

[TMB SIGNAL+ \(BUF054A\)](#)

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'M365518:200529'

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