

## Datasheet: MCA2076

**BATCH NUMBER 156909**

<b>Description:</b>	MOUSE ANTI LUCIFERASE
<b>Specificity:</b>	LUCIFERASE
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	LUC-Y
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 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 (1)	▪			10ug/ml
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA	▪			1/500 - 1/5000
Immunoprecipitation			▪	
Western Blotting	▪			1/100
Immunofluorescence	▪			

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.

**(1) Membrane permeabilisation is required for this application. Bio-Rad recommends the use of Leucoperm™ (Product Code [BUF09](#)) for this purpose.**

<b>Target Species</b>	Insect
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant.
<b>Buffer Solution</b>	Phosphate buffered saline

<b>Preservative Stabilisers</b>	0.09% Sodium Azide
<b>Carrier Free</b>	Yes
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Recombinant luciferase expressed in <i>E. coli</i> .
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P08659</a> <a href="#">Related reagents</a>
<b>RRID</b>	AB_323475
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c were fused with cells of the SP20 myeloma cell line.
<b>Specificity</b>	<b>Mouse anti Luciferase antibody, clone LUC-Y</b> detects the expression of the luciferase gene of the North American firefly <i>Photinus pyralis</i> in cells and tissues.
<b>Flow Cytometry</b>	Use 10ul of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100ul.
<b>Western Blotting</b>	MCA2076 detects a band of approximately 55 - 60 kDa with a sample of 1ug of purified luciferase from <i>Photinus pyralis</i> on a Western blot.
<b>References</b>	<ol style="list-style-type: none"> <li>1. Laakkonen, J.P. <i>et al.</i> (2009) Clathrin-independent entry of baculovirus triggers uptake of <i>E. coli</i> in non-phagocytic human cells. <a href="#">PLoS One. 4:e5093.</a></li> <li>2. van Beusechem, V.W. <i>et al.</i> (2002) Efficient and selective gene transfer into primary human brain tumors by using single-chain antibody-targeted adenoviral vectors with native tropism abolished. <a href="#">J Virol. 76: 2753-62.</a></li> <li>3. Zhao, D. <i>et al.</i> (2008) Antivascular effects of combretastatin A4 phosphate in breast cancer xenograft assessed using dynamic bioluminescence imaging and confirmed by MRI. <a href="#">FASEB J. 22: 2445-51.</a></li> <li>4. Spiotto, M.T. <i>et al.</i> (2010) Imaging the unfolded protein response in primary tumors reveals microenvironments with metabolic variations that predict tumor growth. <a href="#">Cancer Res. 70: 78-88.</a></li> <li>5. Howarth, J.L. <i>et al.</i> (2007) Hsp40 molecules that target to the ubiquitin-proteasome system decrease inclusion formation in models of polyglutamine disease. <a href="#">Mol Ther. 15: 1100-5.</a></li> <li>6. Keravala, A. <i>et al.</i> (2008) Long-term transgene expression in mouse neural progenitor cells modified with phiC31 integrase. <a href="#">J Neurosci Methods. 173: 299-305.</a></li> <li>7. Zhou, H. <i>et al.</i> (2009) Dynamic near-infrared optical imaging of 2-deoxyglucose uptake by intracranial glioma of athymic mice. <a href="#">PLoS One. 4: e8051.</a></li> </ol>
<b>Storage</b>	<p>Store at +4°C or at -20°C if preferred.</p> <p>Storage in frost-free freezers is not recommended.</p> <p>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</p>

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/MCA2076">https://www.bio-rad-antibodies.com/SDS/MCA2076</a> 10040
--------------------------------------	--

---

<b>Regulatory</b>	For research purposes only
-------------------	----------------------------

---

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...) [HRP](#)

Rabbit Anti Mouse IgG (STAR12...) [RPE](#)

Goat Anti Mouse IgG (STAR76...) [RPE](#)

Rabbit Anti Mouse IgG (STAR13...) [HRP](#)

Goat Anti Mouse IgG (STAR70...) [FITC](#)

Rabbit Anti Mouse IgG (STAR9...) [FITC](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

**North & South** Tel: +1 800 265 7376

**America** Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto: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](mailto: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](mailto: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](https://www.bio-rad-antibodies.com/datasheets)

'M366143:200529'

**Printed on 12 Sep 2023**

---

© 2023 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)