

## Datasheet: MCA2076

<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)	▪			10 $\mu$ g/ml
Immunohistology - Frozen	▪			
Immunohistology - Paraffin			▪	
ELISA	▪			1/500 - 1/5000
Immunoprecipitation			▪	
Western Blotting	▪			1/100
Immunofluorescence	▪			

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.

**(1) Membrane permeabilization is required for this application. The use of Leucoperm (Product Code [BUF09](#)) is recommended 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 (NaN <sub>3</sub> )

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant luciferase expressed in <i>E. coli</i> .
External Database Links	<b>UniProt:</b> <a href="#">P08659</a> <a href="#">Related reagents</a>
RRID	AB_323475
Fusion Partners	Spleen cells from immunized BALB/c were fused with cells of the SP2/0 myeloma cell line.
Specificity	<b>Mouse anti Luciferase antibody, clone LUC-Y</b> detects luciferase of the North American firefly <i>Photinus pyralis</i> in cells and tissues.
Flow Cytometry	Use 10µl of the suggested working dilution to label 1x10 <sup>6</sup> cells in 100µl
Western Blotting	Mouse anti luciferase antibody, clone LUC-Y 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.
References	<ol style="list-style-type: none"> <li>1. 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>2. 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>3. 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>4. 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>5. 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> <li>6. 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>7. 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> </ol>
Storage	<p>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.</p> <p>Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.</p>

<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 \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</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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