

Datasheet: MCA2076

Description:	MOUSE ANTI LUCIFERASE
Specificity:	LUCIFERASE
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	LUC-Y
Isotype:	IgG1
Quantity:	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.

	Yes	No	Not Determined	Suggested Dilution
Flow Cytometry (1)	▪			10µg/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.

Target Species	Insect
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant.
Buffer Solution	Phosphate buffered saline
Preservative Stabilisers	0.09% sodium azide (NaN ₃)

Carrier Free	Yes
Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	Recombinant luciferase expressed in <i>E. coli</i> .
External Database Links	UniProt: P08659 Related reagents
RRID	AB_323475
Fusion Partners	Spleen cells from immunized BALB/c were fused with cells of the SP2/0 myeloma cell line.
Specificity	Mouse anti Luciferase antibody, clone LUC-Y 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 ⁶ 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"> 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. J Virol. 76: 2753-62. 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. Mol Ther. 15: 1100-5. 3. Keravala, A. <i>et al.</i> (2008) Long-term transgene expression in mouse neural progenitor cells modified with phiC31 integrase. J Neurosci Methods. 173: 299-305. 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. FASEB J. 22: 2445-51. 5. Zhou, H. <i>et al.</i> (2009) Dynamic near-infrared optical imaging of 2-deoxyglucose uptake by intracranial glioma of athymic mice. PLoS One. 4: e8051. 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. PLoS One. 4:e5093. 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. Cancer Res. 70: 78-88.
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>

Guarantee	12 months from date of despatch
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Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2076 10040
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Regulatory	For research purposes only
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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 \(MCA928\)](#)

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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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