

Datasheet: MCA2076

BATCH NUMBER 1702

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)	▪			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.

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
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 immunised BALB/c were fused with cells of the SP20 myeloma cell line.
Specificity	Mouse anti Luciferase antibody, clone LUC-Y detects the expression of the luciferase gene of the North American firefly <i>Photinus pyralis</i> in cells and tissues.
Flow Cytometry	Use 10ul of the suggested working dilution to label 1x10 ⁶ cells in 100ul.
Western Blotting	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.
References	<ol style="list-style-type: none"> 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. PLoS One. 4:e5093. 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. J Virol. 76: 2753-62. 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. FASEB J. 22: 2445-51. 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. Cancer Res. 70: 78-88. 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. Mol Ther. 15: 1100-5. 6. 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. 7. 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.
Storage	<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.

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

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](#)

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

Recommended Negative Controls

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

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