

Datasheet: MCA2076

BATCH NUMBER 168440

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	0.09% sodium azide (NaN ₃)

Stabilisers

Carrier Free Yes

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen Recombinant luciferase expressed in *E. coli*.

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 *Photinus pyralis* in cells and tissues.

Flow Cytometry Use 10µl of the suggested working dilution to label 1x10⁶ 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 *Photinus pyralis* on a western blot.

References

1. van Beusechem, V.W. *et al.* (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. *et al.* (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. *et al.* (2008) Long-term transgene expression in mouse neural progenitor cells modified with phiC31 integrase. [J Neurosci Methods. 173: 299-305.](#)
4. Zhao, D. *et al.* (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. *et al.* (2009) Dynamic near-infrared optical imaging of 2-deoxyglucose uptake by intracranial glioma of athymic mice. [PLoS One. 4: e8051.](#)
6. Laakkonen, J.P. *et al.* (2009) Clathrin-independent entry of baculovirus triggers uptake of *E. coli* in non-phagocytic human cells. [PLoS One. 4:e5093.](#)
7. Spiotto, M.T. *et al.* (2010) Imaging the unfolded protein response in primary tumors reveals microenvironments with metabolic variations that predict tumor growth. [Cancer Res. 70: 78-88.](#)

Storage 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.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in

frost-free freezers is not recommended.

Guarantee	12 months from date of despatch
------------------	---------------------------------

Health And Safety Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/MCA2076 10040
--------------------------------------	--

Regulatory	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

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: 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

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)

'M412744:221116'

Printed on 26 Jun 2024

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)