

# Product Datasheet

## MRG-1 Antibody **49130002-0.1mg**

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

[www.novusbio.com](http://www.novusbio.com)



[technical@novusbio.com](mailto:technical@novusbio.com)

**Reviews: 1 Publications: 7**

Protocols, Publications, Related Products, Reviews, Research Tools and Images at:  
[www.novusbio.com/49130002](http://www.novusbio.com/49130002)

Updated 12/20/2023 v.20.1

**Earn rewards for product reviews and publications.**

Submit a publication at [www.novusbio.com/publications](http://www.novusbio.com/publications)

Submit a review at [www.novusbio.com/reviews/destination/49130002](http://www.novusbio.com/reviews/destination/49130002)



49130002-0.1mg

MRG-1 Antibody

**Product Information**

<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	20mM Potassium Phosphate (pH 7.0) and 0.15M NaCl

**Product Description**

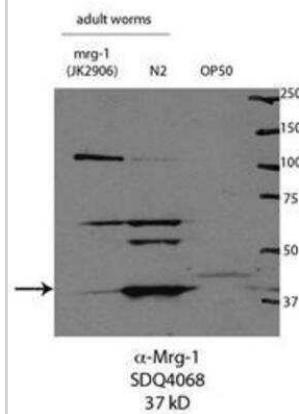
<b>Host</b>	Rabbit
<b>Gene ID</b>	176702
<b>Gene Symbol</b>	mrg-1
<b>Species</b>	C. elegans
<b>Reactivity Notes</b>	Use in C. elegans reported in scientific literature (PMID:10.7554/eLife.63300).
<b>Immunogen</b>	In vivo generated recombinant protein fragment
<b>Notes</b>	This product was created from the ModEncode Project, a part of the NHGRI, and is sold by SDIX and Novus Biologicals. These C. elegans antibodies were generated in the labs of Jason Lieb, Susan Strome, Julie Ahringer, Arshad Desai, and Abby Dernburg.

**Product Application Details**

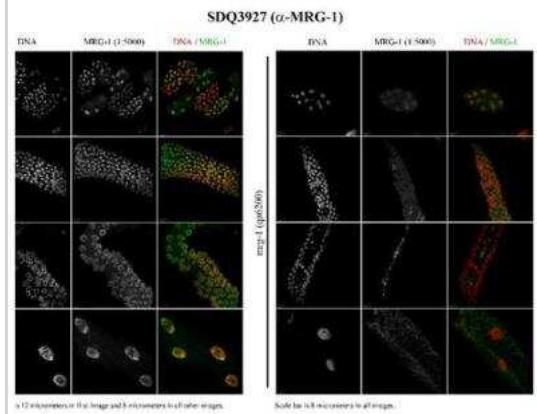
<b>Applications</b>	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
<b>Recommended Dilutions</b>	Western Blot 1:100-1:2000, ELISA 1:100-1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:10-1:2000, Immunoprecipitation, Immunohistochemistry-Frozen
<b>Application Notes</b>	Use in WB reported in scientific literature (PMID:10.7554/eLife.63300)

## Images

Western Blot: MRG-1 Antibody [49130002] This image is specific to animal number SDQ4068 1:3,000 of 0.5 mg/ml stock



Immunocytochemistry/Immunofluorescence: MRG-1 Antibody [49130002] - This image is specific to animal number SDQ3927 1:5000 of 0.5 mg/ml stock



## Publications

Delaney CE, Methot SP, Kalck V et al. SETDB1-like MET-2 promotes transcriptional silencing and development independently of its H3K9me-associated catalytic activity *Nature structural & molecular biology* 2022-02-01 [PMID: 35102319] (WB)

Kim H, Ding YH, Lu S et al. PIE-1 SUMOylation promotes germline fates and piRNA-dependent silencing in *C. elegans* *eLife* 2021-05-18 [PMID: 34003111] (WB)

Kim H, Ding YH, Zhang G et al. HDAC1 SUMOylation promotes Argonaute-directed transcriptional silencing in *C. elegans* *eLife* 2021-05-18 [PMID: 34003109] (WB)

Kim H, Ding Y, Lu S et al. PIE-1 promotes SUMOylation and activation of HDAC1 during the *C. elegans* oogenesis *bioRxiv* 2020-08-18 (WB, *C. elegans*)

Delaney CE, Methot SP, Guidi M et al. Heterochromatic foci and transcriptional repression by an unstructured MET-2/SETDB1 co-factor LIN-65 *J. Cell Biol.* 2019-03-04 [PMID: 30737265] (WB, *C. elegans*)

Hajduskova M, Baytek G, Kolundzic E et al. MRG-1/MRG15 Is a Barrier for Germ Cell to Neuron Reprogramming in *Caenorhabditis elegans*. *Genetics*. 2018-11-13 [PMID: 30425042] (IP, *C. elegans*)

Gupta P, Leahul L, Wang X et al. Proteasome regulation of the chromodomain protein MRG-1 controls the balance between proliferative fate and differentiation in the *C. elegans* germ line Development. 2015-01-15 [PMID: 25564623] (IP, WB, IHC-Fr, *C. elegans*)

### Details:

MRG-1 antibody used for IHC-Fr on *C. elegans* wild-type and rfp-1(ok572) mutant gonads - five to eight minutes/RT fixation in 3% paraformaldehyde , post-fixation in 100% methanol -20C ON , 1 hour/RT blocking in 30% goat serum, primary antibody used at 1:1000 with ON 4C incubation (Fig 7C). IHC-Fr also performed on N2 (wild-type), mrg-1(RNAi) and mrg-1(tm1227) M+Z- animals (Figure S2B). Antibody also used for WB on N2 (wild type) *C. elegans* as well as the mutants pas-5(oz237) and rfp-1(ok572), and on *C. elegans* treated with lactacystin, a proteasome inhibitor (Fig 7A, 7B). WB also performed on N2 wild type in comparasion to MRG1-RNAi, MRG1 M+Z- and MRG1 M +Z+ (Figure S2A). Antibody also used for IP application on wild-type animals treated or not with Lactacystin (Figure S4).



## Novus Biologicals USA

10730 E. Briarwood Avenue  
Centennial, CO 80112  
USA  
Phone: 303.730.1950  
Toll Free: 1.888.506.6887  
Fax: 303.730.1966  
nb-customerservice@bio-techne.com

## Bio-Techne Canada

21 Canmotor Ave  
Toronto, ON M8Z 4E6  
Canada  
Phone: 905.827.6400  
Toll Free: 855.668.8722  
Fax: 905.827.6402  
canada.inquires@bio-techne.com

## Bio-Techne Ltd

19 Barton Lane  
Abingdon Science Park  
Abingdon, OX14 3NB, United Kingdom  
Phone: (44) (0) 1235 529449  
Free Phone: 0800 37 34 15  
Fax: (44) (0) 1235 533420  
info.EMEA@bio-techne.com

## General Contact Information

[www.novusbio.com](http://www.novusbio.com)  
Technical Support: [nb-technical@bio-techne.com](mailto:nb-technical@bio-techne.com)  
Orders: [nb-customerservice@bio-techne.com](mailto:nb-customerservice@bio-techne.com)  
General: [novus@novusbio.com](mailto:novus@novusbio.com)

## Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

**For more information on our 100% guarantee, please visit [www.novusbio.com/guarantee](http://www.novusbio.com/guarantee)**

**Earn gift cards/discounts by submitting a review: [www.novusbio.com/reviews/submit/49130002](http://www.novusbio.com/reviews/submit/49130002)**

**Earn gift cards/discounts by submitting a publication using this product:  
[www.novusbio.com/publications](http://www.novusbio.com/publications)**