

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.

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49130002-0.1mg

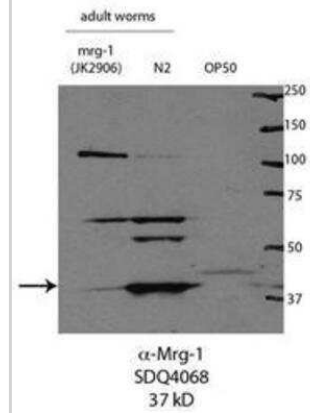
MRG-1 Antibody

Product Information	
Unit Size	0.1 mg
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	No Preservative
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	20mM Potassium Phosphate (pH 7.0) and 0.15M NaCl
Product Description	
Host	Rabbit
Gene ID	176702
Gene Symbol	mrg-1
Species	C. elegans
Reactivity Notes	Use in C. elegans reported in scientific literature (PMID:10.7554/eLife.63300).
Immunogen	In vivo generated recombinant protein fragment
Notes	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	
Applications	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation
Recommended Dilutions	Western Blot 1:100-1:2000, ELISA 1:100-1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:10-1:2000, Immunoprecipitation, Immunohistochemistry-Frozen
Application Notes	Use in WB reported in scientific literature (PMID:10.7554/eLife.63300)

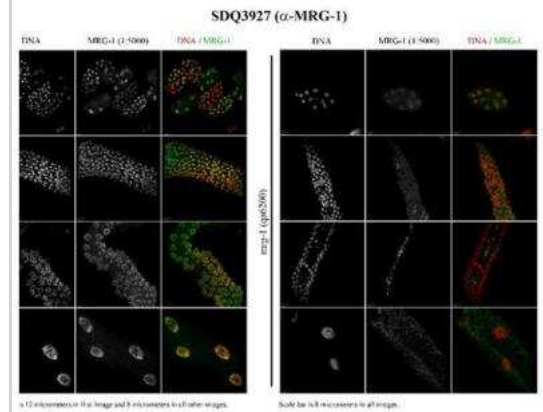


Images

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 comparison 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).





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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.

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