Product Datasheet

hcp-3 Antibody
29540002-0.1ml

Unit Size: 0.1 ml

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

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Reviews: 1 Publications: 6

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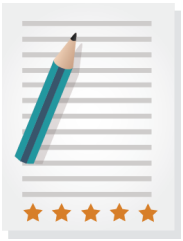
Updated 12/20/2023 v.20.1



29540002-0.1ml

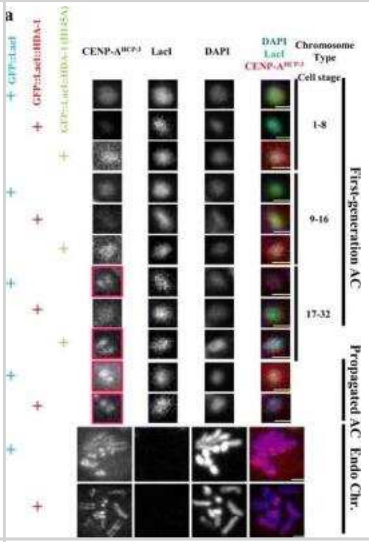
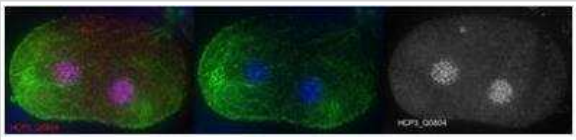
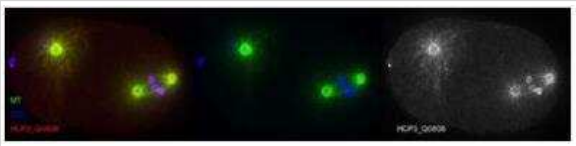
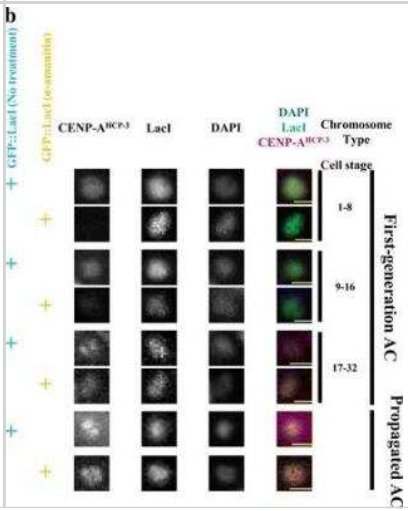
hcp-3 Antibody

Product Information	
Unit Size	0.1 ml
Concentration	1.0 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
Species	C. elegans
Reactivity Notes	C. Elegans. Animal Number Q0804
Specificity/Sensitivity	This antibody is specific for C. Elegans HCP-3
Immunogen	In vivo generated recombinant protein fragment to hcp-3
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, Immunoprecipitation
Recommended Dilutions	Western Blot 1:100-1:2000, ELISA 1:100-1:2000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:10-1:2000, Immunoprecipitation
Application Notes	Use in Immunohistochemistry reported in scientific literature (PMID:33872374)

Images

Immunocytochemistry/Immunofluorescence: hcp-3 Antibody [29540002] - CENP-AHCP-3 on first-generation ACs at different cell stages, and that have been propagated for generations & endogenous chromosomes in GFP:LacI-, GFP:LacI:HDA-1- & GFP:LacI:HDA-1(H145A)-tethering strains. Images containing ACs & endogenous chromosomes shown. Embryos stained w/ antibody against CENP-AHCP-3 (red), LacI (green) & DAPI (blue), shown separate & merged. Ex. of bipolar-oriented CENP-AHCP-3 highlighted in red boxes. Quant. of IF signals. CENP-AHCP-3 signals normalized with DAPI signals, & ave. normalized CENP-AHCP-3 signal intensity calculated. Black arcs show comparisons between GFP::LacI-, GFP::LacI::HDA-1- & GFP::LacI::HDA-1(H145A)-tethering strain at same cell stage. Blue arcs show comparisons between ACs at different stages in GFP::LacI-tethering strain. Image collected & cropped by CiteAb from (epigeneticsandchromatin.biomedcentral.com/articles/10.1186/s13072-018-0185-1), licensed under CC-BY license.	
Immunocytochemistry/Immunofluorescence: hcp-3 Antibody [29540002] - This antibody is specific for animal number Q0804 Dilution 1:500	
Immunocytochemistry/Immunofluorescence: hcp-3 Antibody [29540002] - This image is specific to animal number Q0806 Dilution 1:500	
Immunocytochemistry/Immunofluorescence: hcp-3 Antibody [29540002] - IF of CENP-AHCP-3 on first-generation ACs at different cell stages, and ACs that have been propagated for generations in GFP::LacI-tethering strain without and with alpha-amanitin treatment. Embryos were stained with antibody against CENP-AHCP-3 (red), LacI (green) and DAPI (blue), separately and merged. Scale bar=1um. Quantification of IF signals. CENP-AHCP-3 signals were normalized with DAPI signals, and the average normalized CENP-AHCP-3 signal intensity was calculated. NS means not significant. Black arcs show comparisons between no treatment and alpha-amanitin treatment at the same cell stage. The data for GFP:LacI-tethering strain without alpha-amanitin treatment are the same as in Fig. 3a. Image collected and cropped by CiteAb from the following publication (epigeneticsandchromatin.biomedcentral.com/articles/10.1186/s13072-018-0185-1), licensed under a CC-BY license.	

Publications

Lin Z, Yuen KWY RbAp46/48LIN-53 and HAT-1 are required for initial CENP-AHCP-3 deposition and de novo holocentromere formation on artificial chromosomes in Caenorhabditis elegans embryos Nucleic acids research 2021 -04-19 [PMID: 33872374] (IF/IHC)

Zhu J, Cheng KCL, Yuen KWY. Histone H3K9 and H4 Acetylations and Transcription Facilitate the Initial CENP-AHCP-3 Deposition and De Novo Centromere Establishment in Caenorhabditis elegans Artificial Chromosomes. Epigenetics Chromatin 2018-04-13 [PMID: 29653589] (ICC/IF, C. elegans)

Garrison C, Lastwika K, Zhang Y et al. Proteomic Analysis, Immune Dysregulation, and Pathway Interconnections With Obesity J Proteome Res. 2017-01-06 [PMID: 27769113] (MiAr)

Details:
Analysis is performed on plasma proteomic data to identify how obesity can alter pathways and to highlight the risk factor for disease in subjects with a high body mass index.

Rho JH, Lampe PD. High-throughput screening for native autoantigen-autoantibody complexes using antibody microarrays J Proteome Res. 2013-05-03 [PMID: 23541305] (MiAr)

Details:
A novel method using antibody microarrays is used to detect autoantibody-antigen complexes that can potentially be useful for detection and characterization of diseases.

Lee BC, Lin Z, Yuen KW. RbAp46/48(LIN-53) Is Required for Holocentromere Assembly in Caenorhabditis elegans. Cell Rep. 2016-03-01 [PMID: 26904949] (IP, WB, IF, C. elegans)

Tu S, Wu MZ, Wang J et al. Comparative functional characterization of the CSR-1 22G-RNA pathway in Caenorhabditis nematodes. Nucleic Acids Res. 2015-01-09 [PMID: 25510497] (ICC/IF)

Details:
hcp-3 antibody used for Immunofluorescence staining of C. briggsae embryo (Figure 3).

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