

Product Datasheet

SMC4 Antibody - BSA Free

NBP1-86635

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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Updated 2/21/2025 v.20.1

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NBP1-86635

SMC4 Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

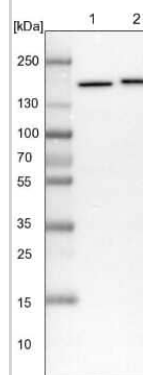
Product Description	
Host	Rabbit
Gene ID	10051
Gene Symbol	SMC4
Species	Human, Mouse, Rat
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: KLTQEETNFKSLVHDLFQKVEEAKSSLAMNRSRGKVLDAIQEKKSGRIPGIYGR LGD LGAIDEKYDVAISSCCHALDYIVVDSIDIAQECVNFLKRQNIQVATFIGLDKM AVWAKKMTEIQTPEPTPRL

Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Immunohistochemistry 1:50 - 1:200, Immunocytochemistry/ Immunofluorescence 0.25-2 ug/ml, Immunohistochemistry-Paraffin 1:50 - 1:200
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100.

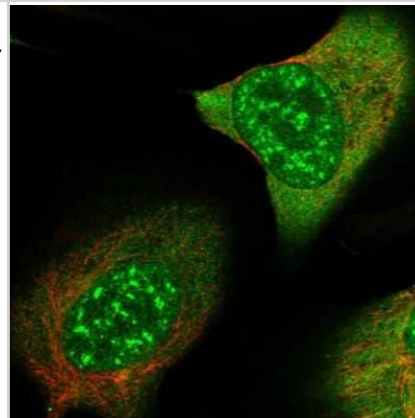


Images

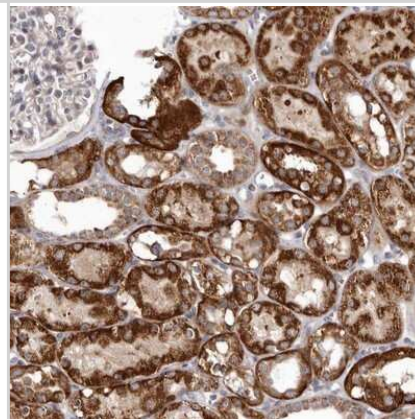
Western Blot: SMC4 Antibody [NBP1-86635] - Lane 1: NIH-3T3 cell lysate (Mouse embryonic fibroblast cells). Lane 2: NBT-II cell lysate (Rat Wistar bladder tumor cells).



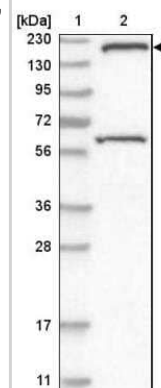
Immunocytochemistry/Immunofluorescence: SMC4 Antibody [NBP1-86635] - Staining of human cell line U-2 OS shows localization to nuclear speckles & cytosol. Antibody staining is shown in green.



Immunohistochemistry-Paraffin: SMC4 Antibody [NBP1-86635] - Staining of human kidney shows strong cytoplasmic positivity with granular pattern in tubule cells.



Western Blot: SMC4 Antibody [NBP1-86635] - Lane 1: Marker [kDa] 230, 130, 95, 72, 56, 36, 28, 17, 11. Lane 2: Human cell line RT-544



Publications

El Yakoubi W, Akera T., et Al. Condensin dysfunction is a reproductive isolating barrier in mice Nature 2023-11-14 [PMID: 37914934]

Leem J, Kim JS, Oh JS. Oocytes can repair DNA damage during meiosis via α -microtubule-dependent recruitment of CIP2A-MDC1-TOPBP1 complex from spindle pole to chromosomes Nucleic Acids Research 2023-06-09 [PMID: 36999590]

Jeon HJ, Oh JS. TRF1 Depletion Reveals Mutual Regulation Between Telomeres, Kinetochores, and Inner Centromeres in Mouse Oocytes Frontiers in Cell and Developmental Biology 2021-09-17 [PMID: 34604243]

Lee C, Leem J, Oh JS Selective utilization of non-homologous end-joining and homologous recombination for DNA repair during meiotic maturation in mouse oocytes Cell proliferation 2022-12-23 [PMID: 36564861] (ICC/IF, Mouse)

Details:

Dilution used in ICC 1:100

Flashner S, Swift M, Sowash A et al. Transcription factor Sp1 regulates mitotic chromosome assembly and segregation Chromosoma 2022-08-02 [PMID: 35916925] (ICC/IF, WB, Human)

Flashner S, Swift M, Sowash A, Azizkhan-Clifford J Transcription factor Sp1 regulates mitotic fidelity through Aurora B kinase-mediated condensin I localization bioRxiv 2020-06-20 (ICC/IF, Human)

Hwang G, Sun F, O'Brien M et al. SMC5/6 is required for the formation of segregation-competent bivalent chromosomes during meiosis I in mouse oocytes. Development. 2017-03-16 [PMID: 28302748] (ICC/IF, Mouse)





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Products Related to NBP1-86635

NBP1-86635PEP	SMC4 Recombinant Protein Antigen
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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