

Product Datasheet

SMC2 Antibody - BSA Free

NB100-373

Unit Size: 100 ul

Store at 4C. Do not freeze.

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NB100-373

SMC2 Antibody - BSA Free

Product Information

Unit Size	100 ul
Concentration	1.0 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

Product Description

Host	Rabbit
Gene ID	10592
Gene Symbol	SMC2
Species	Human
Immunogen	The immunogen recognized by this antibody maps to a region between residue 1150 and the C-terminus (residue 1197) of human Structural Maintenance of Chromosomes 2 using the numbering given in entry NP_006435.1 (GeneID 10592).

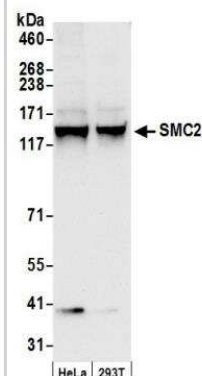
Product Application Details

Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Knockdown Validated
Recommended Dilutions	Western Blot 1:2000 - 1:10000, Immunocytochemistry/ Immunofluorescence 1:200-1:400, Immunoprecipitation 2-10 ug/mg lysate, Knockdown Validated
Application Notes	NB 100-373 may be used for Western Blot, where a band at ~155 kDa is seen, representing SMC2 protein. *The investigator should determine the optimal working dilution for a specific application.

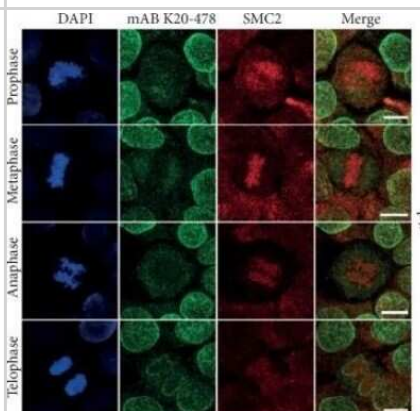


Images

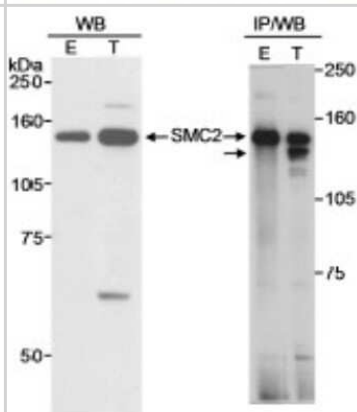
Western Blot: SMC2 Antibody [NB100-373] - Detection of Human SMC2 by Western Blot. Samples: Whole cell lysate (50 ug) from HeLa and 293T cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-SMC2 antibody NB100-373 used for WB at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 seconds.



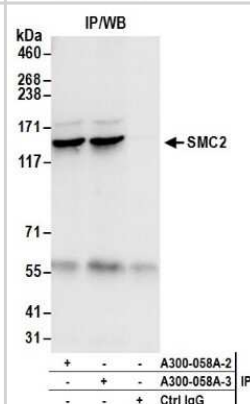
Immunocytochemistry/Immunofluorescence: SMC2 Antibody [NB100-373] - SMC2 in HaCaT keratinocytes treated with control shRNA (upper panels) and treated with Nesprin-2-SMC domain specific shRNA (lower panels). Nesprin-2 was detected with mAb K20-478. Bar, 10 um. Image collected and cropped by CiteAb from the following publication (<https://www.hindawi.com/journals/ijcb/2017/8607532/>), licensed under a CC-BY license.



Western Blot: SMC2 Antibody [NB100-373] - Detection of Human SMC2 on HeLa whole cell lysate using NB100-373.



Western Blot: SMC2 Antibody [NB100-373] - Samples: Whole cell lysate (0.5 or 1.0 mg per IP reaction; 20% of IP loaded) from HeLa cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-SMC2 antibody (lot was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 3 seconds.



Publications

- Gnenc II, Wolff A, Schmidt J et al. Single-cell transcription profiles in Bloom syndrome patients link BLM deficiency with altered condensin complex expression signatures Human Molecular Genetics 2022-07-07 [PMID: 35099000] (Western Blot, Block/Neutralize)
- Xing X, Mrob C, Hao L et al. Nesprin-2 Interacts with Condensin Component SMC2 Int J Cell Biol. 2017-12-26 [PMID: 29445399] (WB, ICC/IF, IP, KD, Human)
- Liu W, Tanasa B, Tyurina OV et al. PHF8 mediates histone H4 lysine 20 demethylation events involved in cell cycle progression. Nature 2010-07-01 [PMID: 20622854]
- Kurasawa Y, Yu-Lee LY. PICH and cotargeted Plk1 coordinately maintain prometaphase chromosome arm architecture. Mol Biol Cell 2010-04-01 [PMID: 20130082]
- Bandhakavi S, Kim YM, Ro SH et al. Quantitative nuclear proteomics identifies mTOR regulation of DNA damage response. Mol Cell Proteomics 2010-02-01 [PMID: 19955088]
- Canudas S, Smith S. Differential regulation of telomere and centromere cohesion by the Scc3 homologues SA1 and SA2, respectively, in human cells. J Cell Biol 2009-10-01 [PMID: 19822671]
- Nash K, Chen W, Salganik M et al. Identification of cellular proteins that interact with the adeno-associated virus rep protein. J Virol 2009-01-01 [PMID: 18971280]
- Blank M, Lerenthal Y, Mittelman L et al. Condensin I recruitment and uneven chromatin condensation precede mitotic cell death in response to DNA damage. J Cell Biol 2006-07-01 [PMID: 16847100]





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Products Related to NB100-373

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-49655PEP	SMC2 Recombinant Protein Antigen

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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