

# Product Datasheet

## SMC3 Antibody - BSA Free

### NB100-207

Unit Size: 100 ul

Store at 4C. Do not freeze.

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**NB100-207**

SMC3 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)

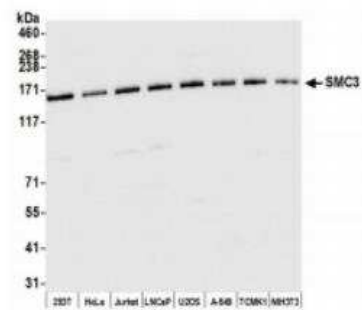
Product Description	
Description	Novus Biologicals Rabbit SMC3 Antibody - BSA Free (NB100-207) is a polyclonal antibody validated for use in IHC, WB and IP. Anti-SMC3 Antibody: Cited in 9 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	9126
Gene Symbol	SMC3
Species	Human, Mouse, C. elegans
Reactivity Notes	Orangutan (100%). C. elegans reactivity reported in scientific literature (PMID: 30563860).
Immunogen	The immunogen recognized by this antibody maps to a region between residue 1175 and the C-terminus (residue 1217) of human Structural Maintenance of Chromosomes 3 using the numbering given in entry NP_005436.1 (GeneID 9126).

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation
Recommended Dilutions	Western Blot 1:10000 - 1:25000, Immunohistochemistry, Immunoprecipitation 2-10 ul/mg, Immunohistochemistry-Paraffin 1:100-1:500
Application Notes	Epitope retrieval with citrate buffer pH6.0 is recommended for FFPE tissue sections.

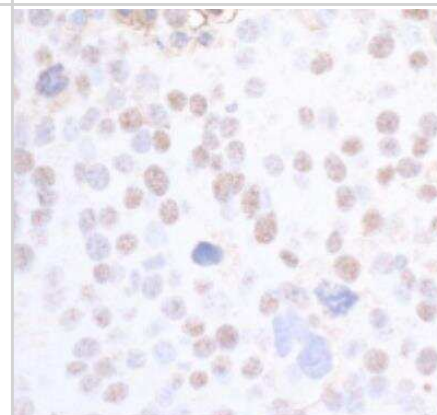


## Images

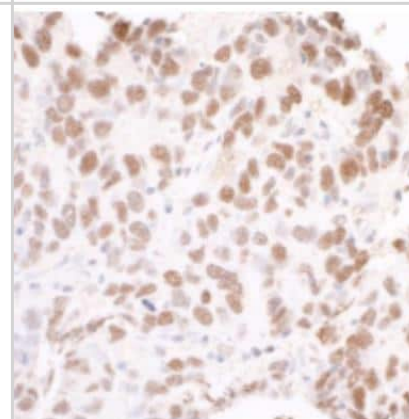
Western Blot: SMC3 Antibody [NB100-207] - Whole cell lysate (10 ug) from HEK293T, HeLa, Jurkat, LNCaP, U2OS, A-549, TCMK-1, and NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-SMC3 antibody used for WB at 0.04 ug/ml. Detection: Chemiluminescence with an exposure time of 3 seconds.



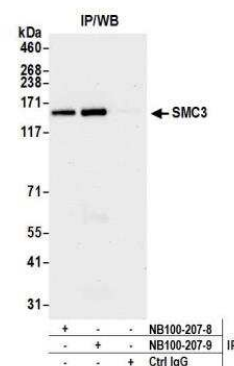
Immunohistochemistry-Paraffin: SMC3 Antibody [NB100-207] - Section of mouse renal cell carcinoma. Antibody: Affinity purified rabbit anti-SMC3 used at 1:5,000 (0.2ug/ml). Detection: DAB



Immunohistochemistry-Paraffin: SMC3 Antibody [NB100-207] - Section of human breast carcinoma. Antibody: Affinity purified rabbit anti-SMC3 used at 1:5,000 (0.2ug/ml). Detection: DAB



SMC3 Antibody [NB100-207] - Detection of human SMC3 by western blot of immunoprecipitates. Samples: Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HeLa, cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-SMC3 antibody NB100-207 (lot NB100-207-9) used for IP at 3 ug per reaction. SMC3 was also immunoprecipitated by a previous lot of this antibody (lot NB100-207-8). For blotting immunoprecipitated SMC3, NB100-207 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.



## Publications

Tao, H, Lambert, J P Et al. IRX3/5 regulate mitotic chromatid segregation and limb bud shape. *Development* 2020-10-05 [PMID: 32907847] (Chemotaxis, Human)

Bowman R, Balukof N, Ford T, Smolikove S. A Novel Role for a-importins and Akirin in Establishment of Meiotic Sister Chromatid Cohesion in *Caenorhabditis elegans* *Genetics* 2018-12-18 [PMID: 30563860] (IF/IHC, *C. elegans*)

Deardorff MA, Bando M, Nakato R et al. HDAC8 mutations in Cornelia de Lange syndrome affect the cohesin acetylation cycle. *Nature* 2012-09-01 [PMID: 22885700]

Shiomi Y, Hayashi A, Ishii T et al. Two different replication factor C proteins, Ctf18 and RFC1, separately control PCNA-CRL4Cdt2-mediated Cdt1 proteolysis during S phase and following UV irradiation. *Mol Cell Biol.* 2012-06-01 [PMID: 22493068]

Leman AR, Noguchi C, Lee CY et al. Human Timeless and Tipin stabilize replication forks and facilitate sister-chromatid cohesion. *J Cell Sci* 2010-03-01 [PMID: 20124417]

Terret ME, Sherwood R, Rahman S et al. Cohesin acetylation speeds the replication fork. *Nature* 2009-11-01 [PMID: 19907496]

Adelfalk C, Janschek J, Revenkova E et al. Cohesin SMC1beta protects telomeres in meiocytes. *J Cell Biol* 2009-10-01 [PMID: 19841137]

Rankin S, Ayad NG, Kirschner MW et al. Sororin, a substrate of the anaphase-promoting complex, is required for sister chromatid cohesion in vertebrates. *Mol Cell* 2005-04-01 [PMID: 15837422]

Revenkova E, Eijpe M, Heyting C et al. Cohesin SMC1 beta is required for meiotic chromosome dynamics, sister chromatid cohesion and DNA recombination. *Nat Cell Biol* 2004-06-01 [PMID: 15146193]





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### **Products Related to NB100-207**

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NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

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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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