

# Product Datasheet

## SMC2 Antibody (PSH0-62)

### NBP3-32958

Unit Size: 100 ul

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

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**NBP3-32958**

SMC2 Antibody (PSH0-62)

<b>Product Information</b>	
<b>Unit Size</b>	100 ul
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	PSH0-62
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Protein A purified
<b>Buffer</b>	PBS (pH7.4), 0.1% BSA and 40% Glycerol
<b>Target Molecular Weight</b>	136 kDa
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Rabbit SMC2 Antibody (PSH0-62) (NBP3-32958) is a recombinant monoclonal antibody validated for use in IHC, WB and ICC/IF. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	10592
<b>Gene Symbol</b>	SMC2
<b>Species</b>	Human, Monkey
<b>Immunogen</b>	Recombinant protein within human SMC2 aa 451-750 / 1,197. (Uniprot: O95347)
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:1000, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:100, Immunohistochemistry-Paraffin 1:1000



## Images

Western Blot: SMC2 Antibody (PSH0-62) [NBP3-32958] - Western blot analysis of SMC2 on different lysates with Rabbit anti-SMC2 antibody (NBP3-32958) at 1/1,000 dilution.

Lane 1: HeLa cell lysate (30 ug/Lane)  
 Lane 2: HEK-293 cell lysate (30 ug/Lane)  
 Lane 3: HT-29 cell lysate (30 ug/Lane)  
 Lane 4: HepG2 cell lysate (30 ug/Lane)  
 Lane 5: A431 cell lysate (30 ug/Lane)  
 Lane 6: SH-SY5Y cell lysate (30 ug/Lane)  
 Lane 7: Jurkat cell lysate (30 ug/Lane)  
 Lane 8: Raji cell lysate (30 ug/Lane)  
 Lane 9: COS-1 cell lysate (24 ug/Lane)

Predicted band size: 136 kDa  
 Observed band size: 136 kDa

Exposure time: 30 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (NBP3-32958) at 1/1,000 dilution was used in 5% NFDM/TBST at room temperature for 2 hours. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:100,000 dilution was used for 1 hour at room temperature.

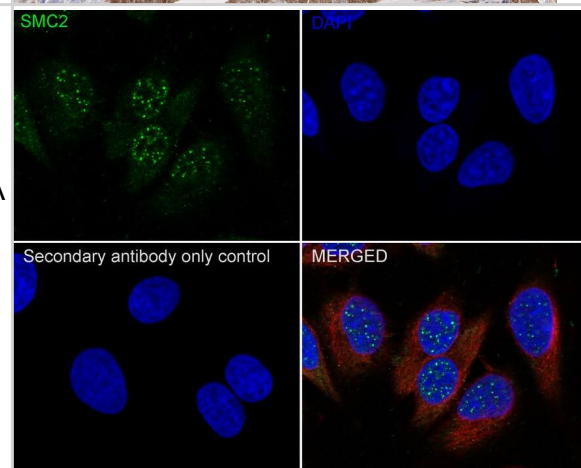
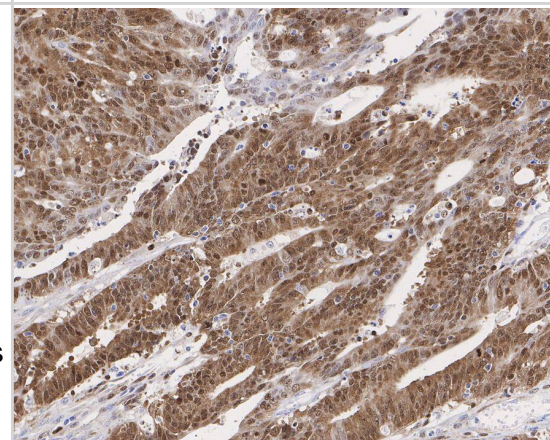
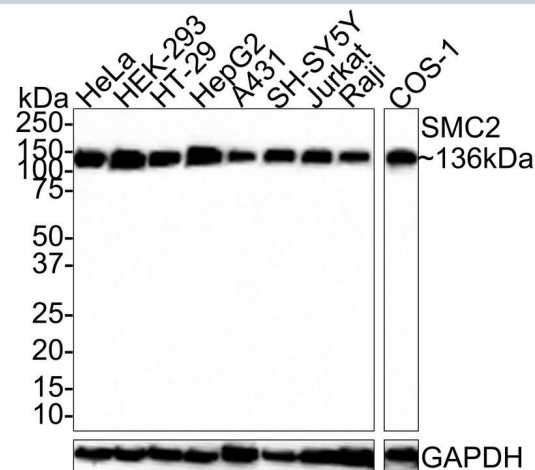
Immunohistochemistry: SMC2 Antibody (PSH0-62) [NBP3-32958] - Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue with Rabbit anti-SMC2 antibody (NBP3-32958) at 1/1,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0) for 2 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with the primary antibody (NBP3-32958) at 1/1,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.

Immunocytochemistry/ Immunofluorescence: SMC2 Antibody (PSH0-62) [NBP3-32958] - Immunocytochemistry analysis of HeLa cells labeling SMC2 with Rabbit anti-SMC2 antibody (NBP3-32958) at 1/100 dilution.

Cells were fixed in 100% methanol for 10 minutes, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes, and then blocked with 1% BSA for 30 minutes at room temperature. Cells were then incubated with Rabbit anti-SMC2 antibody (NBP3-32958) at 1/100 dilution in 2% negative goat serum overnight at 4 °C. Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (red) was stained at 1/100 dilution overnight at +4 °C. Goat Anti-Mouse IgG H&L (iFluor™ 594) was used as the secondary antibody at 1/1,000 dilution.





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### **Products Related to NBP3-32958**

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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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