

Product Datasheet

SCP1 Antibody - BSA Free NB300-228

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NB300-228

SCP1 Antibody - BSA Free

Product Information

Unit Size	0.1 ml
Concentration	1 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.1% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	Tris-Citrate/Phosphate (pH 7.0 - 8.0)

Product Description

Host	Rabbit
Gene ID	6847
Gene Symbol	SYCP1
Species	Human, Mouse, Rat, Primate
Immunogen	A C-terminal synthetic peptide made to the human SCP1 protein sequence. [UniProt# Q15431]

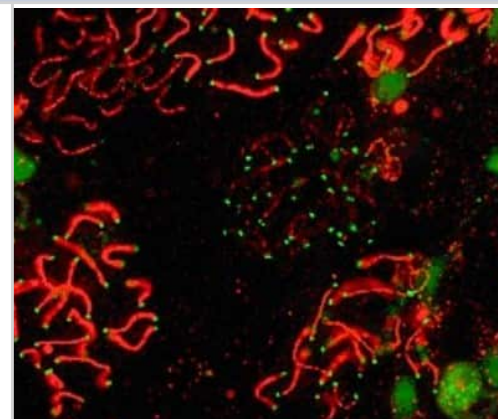
Product Application Details

Applications	Western Blot, Simple Western, Immunoblotting, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot reported in scientific literature (PMID 23843895), Simple Western 1:200, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:300-1:750, Immunohistochemistry-Paraffin reported in scientific literature (PMID 26858254), Immunoblotting reported in scientific literature (PMID 27431324)
Application Notes	This SCP1 antibody does not appear to work in Immunohistochemistry on paraffin-embedded sections. *The investigator should determine the optimal working dilution for a specific application. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. See Simple Western Antibody Database for Simple Western validation: Tested in Human Testis and Mouse Testis lysate 0.5 mg/mL, separated by Size, antibody dilution of 1:200. Separated by Size-Wes, Sally Sue/Peggy Sue.

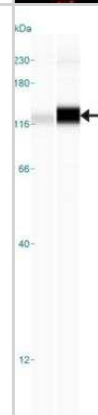


Images

Immunocytochemistry/Immunofluorescence: SCP1 Antibody [NB300-228] - SCP1 labeled in mouse pachytene preparation (red), using NB 300-228. CDK2 staining, near telomeres, is also present (green).



Simple Western: SCP1 Antibody [NB300-228] - Lane view shows a specific band for SCP1 in 0.5 mg/ml of Human Testis (left) and Mouse Testis (right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system. * Non-specific interaction with the 230 kDa Simple Western standard may be seen with this antibody



Publications

Miao Du, Shikun Chen, Yang Chen, Xinxu Yuan, Huansheng Dong Testicular fat deposition attenuates reproductive performance via decreased follicle-stimulating hormone level and sperm meiosis and testosterone synthesis in mouse *Animal Bioscience* 2024-01-01 [PMID: 37641828]

Mizuta K, Katou Y, Nakakita B et al. Ex vivo reconstitution of fetal oocyte development in humans and cynomolgus monkeys *The EMBO journal* 2022-08-01 [PMID: 35912849]

Chien JC, Tabet E, Pinkham K et al. A multiplexed bioluminescent reporter for sensitive and non-invasive tracking of DNA double strand break repair dynamics in vitro and in vivo *Nucleic Acids Res* 2020-08-16 [PMID: 32797168]

Liu C, Liu H, Zhang H et al. Paternal USP26 mutations raise Klinefelter syndrome risk in the offspring of mice and humans *The EMBO journal* 2021-05-12 [PMID: 33978233]

Wei H, Khawar MB, Tang W et al. Sirt6 is required for spermatogenesis in mice *Aging (Albany NY)* 2020-09-11 [PMID: 32915773]

Wang L, Tu Z, et al. Dual roles of TRF1 in tethering telomeres to the nuclear envelope and protecting them from fusion during meiosis. *Cell Death Differ* 2018-06-01 [PMID: 29311622] (ICC/IF, Mouse)

Xu Z, Song Z, Li G et al. H2B ubiquitination regulates meiotic recombination by promoting chromatin relaxation. *Nucleic Acids Res* 2016-07-18 [PMID: 27431324]

Liu YJ, Liu C, Chang Z et al. Degradation of the Separase-cleaved Rec8, a Meiotic Cohesin Subunit, by the N-end Rule Pathway *J. Biol. Chem.* 2016-02-08 [PMID: 26858254] (IHC-P, Mouse)

Zheng Y, Liu Y, Jin H et al. Scavenger Receptor B1 is a Potential Biomarker of Human Nasopharyngeal Carcinoma and Its Growth is Inhibited by HDL-mimetic Nanoparticles. *Theranostics* 2013-06-25 [PMID: 23843895] (WB, Human)

Yamauchi K, Hasegawa K, Chuma S et al. In vitro germ cell differentiation from cynomolgus monkey embryonic stem cells. *PLoS One* 2009-01-01 [PMID: 19399191] (ICC/IF, Primate)

Bisig CG, Guiraldelli MF, Kouznetsova A et al. Synaptonemal Complex Components Persist at Centromeres and Are Required for Homologous Centromere Pairing in Mouse Spermatocytes *PLoS Genet* 2012-06-01 [PMID: 22761579] (ICC/IF, Mouse)

Takada Y, Naruse C, Costa Y et al. HP1 γ links histone methylation marks to meiotic synapsis in mice. *Development*;138(19):4207-4217. 2011-10-01 [PMID: 21896631]

More publications at <http://www.novusbio.com/NB300-228>

Procedures

Immunocytochemistry/Immunofluorescence protocol for SCP1 Antibody (NB300-228)

SCP1 Antibody:

Immunofluorescence Procedure

1. Freshly prepared slides are soaked in 1X ADB for 75 minutes.
2. Primary antibodies are added concurrently (SCP1 and CDK2).
3. The primary antibodies are incubated overnight in a humid chamber (37 degrees Celsius).
4. The slides are washed for 40 minutes in 1X ADB.
5. The slides are detected with the appropriate secondary antibodies (RDAR for SCP1 and FDAM for CDK2).
6. The slides are incubated for 4 hours in a humid chamber (37 degrees Celsius).
7. The slides are washed for 20 minutes in 1X ADB, followed by 3 washes, 10 minutes each, in 1X PBS.
8. The slides are counterstained with DAPI.
9. Images are captured after allowing the slides to remain in the dark overnight at RT.





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Products Related to NB300-228

NB300-228PEP	SCP1 Antibody Blocking Peptide
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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