

Product Datasheet

Spt6 Antibody NB100-2582

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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NB100-2582

Spt6 Antibody

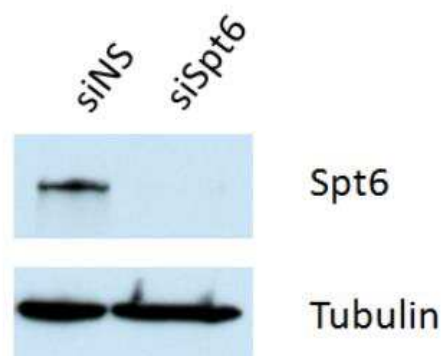
Product Information	
Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS, 0.1% BSA

Product Description	
Description	Novus Biologicals Rabbit Spt6 Antibody (NB100-2582) is a polyclonal antibody validated for use in IHC, WB, IP and ChIP. Anti-Spt6 Antibody: Cited in 19 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	6830
Gene Symbol	SUPT6H
Species	Human, Mouse, Chicken
Reactivity Notes	Chicken reactivity reported in scientific literature (PMID: 23008333).
Immunogen	The immunogen recognized by this antibody maps to a region between residue 425 and 475 of human Suppressor of Ty 6 Homolog using the numbering given in entry NP_003161.2 (GenelD 6830).

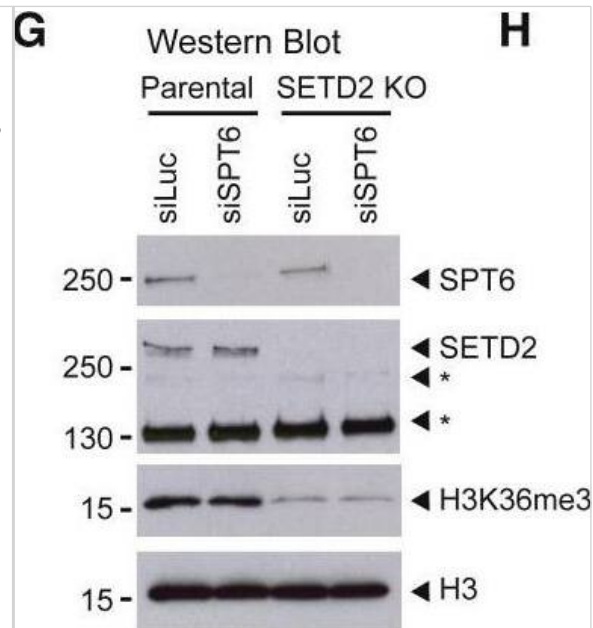
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), Knockdown Validated
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunohistochemistry 1:100 to 1:500, Immunoprecipitation 2 - 10 µg/mg lysate, Immunohistochemistry-Paraffin 1:100 to 1:500, Chromatin Immunoprecipitation (ChIP) Reported in scientific literature (PMID:23503590). , Knockdown Validated
Application Notes	Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.

Images

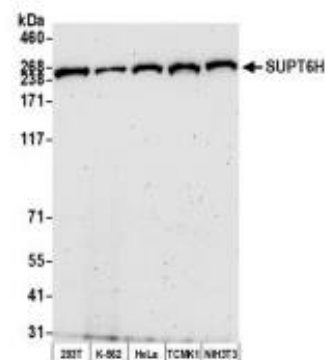
Western Blot: Spt6 Antibody [NB100-2582] - siRNA knockdown to confirm the specificity of Spt6 antibody (NB100-2582) in C2C12 myoblasts, WB: 1:2000 dilution. 20 ug whole cell lysate. WB image submitted by a verified customer review.



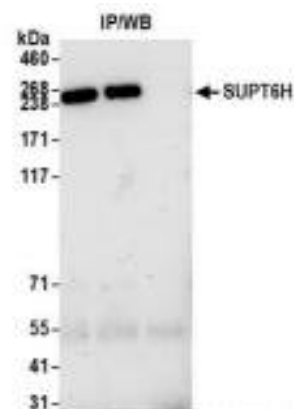
Western Blot: Spt6 Antibody [NB100-2582] - SPT6 Depletion Induces lncRNA Transcription(A) YWHAZ locus showing pre-mRNA (- strand) & PROMPT (+ strand). SPT6 depletion induced lncRNA as shown by ChrRNA-seq & mNET-seq analyses. The profile of mNuc-seq/H3K36me3 is shown below.(B) Meta-analysis of strand-specific ChrRNA-seq signals from -3 kb of TSS to +3 kb of transcription end site (TES) for divergent (pre-mRNA-PROMPT) genes.(C) Boxplots of PROMPT mNET-seq/total CTD & T4P signals.(D) Enhancer located 90 kb downstream of NR4A1 gene with neighboring gene ATG101 showing SPT6 depletion-induced eRNA by ChrRNA-seq & mNET-seq. mNuc-seq/H3K4me1 & H3K4me3 signals indicate active enhancer & promoter, respectively.(E) Meta-analysis of eRNA from ChrRNA-seq & mNET-seq (Total) -3 kb to +3 kb from TSS (enhancers with highest eRNA levels selected).(F) Boxplots of eRNA mNET-seq/total CTD & T4P signals at TSS (-/+2 kb).(G & H) Western blot (G) & quantitative RT-PCR (H) of chromatin-bound RNA of parental & SETD2 CRISPR KO U2OS cells with indicated siRNA transfection for 48 hr. Data are represented as mean \pm SEM. See also Figure S3. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30449723>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



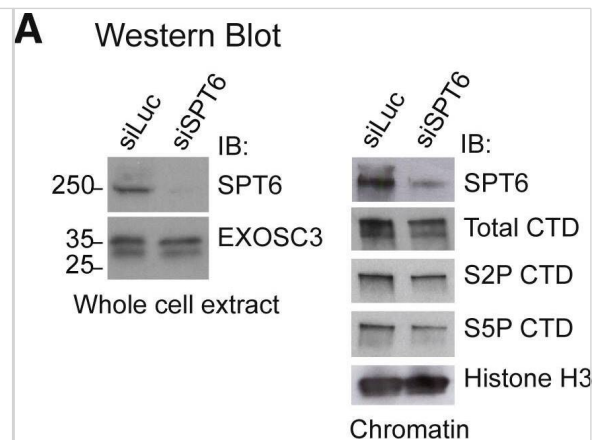
Whole cell lysate (50 μ g) from HEK293T, K-562, HeLa, TCMK-1, and NIH 3T3 cells prepared using NETN lysis buffer. Antibody: Affinity purified rabbit anti-SUPT6H antibody used for WB at 0.04 μ g/ml. Detection: Chemiluminescence with an exposure time of 3 minutes.



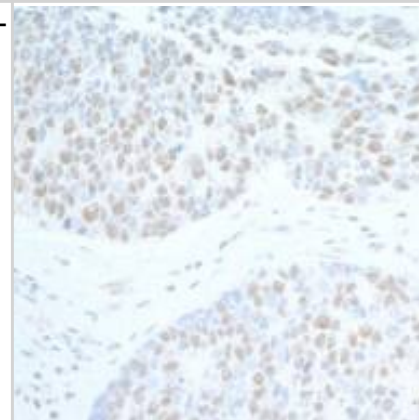
Whole cell lysate (1.0 mg per IP reaction; 20% of IP loaded) from HEK293T cells prepared using NETN lysis buffer. Antibodies: Affinity purified rabbit anti-SUPT6H antibody used for IP at 6 μ g per reaction. SUPT6H was also immunoprecipitated by a previous lot of this antibody. For blotting immunoprecipitated SUPT6H, was used at 0.04 μ g/ml. Detection: Chemiluminescence with an exposure time of 75 seconds.



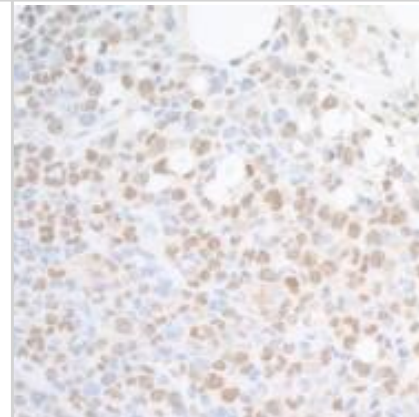
Western Blot: Spt6 Antibody [NB100-2582] - SPT6 Depletion Causes H3K36me3 Redistribution(A) Western blots with indicated antibodies 60 hr post-siSPT6 transfection (versus siLuc nonspecific control). EXOSC3 & H3 profiles shown as loading controls.(B) Meta-analysis of reads density (FPKM) for ratio of mNuc-seq/H3K36me3 with H3 at TSS of divergent PROMPT-pre-mRNA & enhancer RNA (eRNA) following SPT6 depletion. All subsequent transcription images employing siSPT6 versus siLuc are shown in red & blue, respectively.(C) Scatterplots of H3K36me3/H3 on pre-mRNA (0 to +3 kb), PROMPT (-3 kb to 0), & eRNA (-3 kb to +3 kb) regions in siLuc versus siSPT6. The percentage of upregulated regions by SPT6 depletion are indicated.(D) Boxplots of mNuc-seq/H3K36me3 ratio across pre-mRNA gene bodies, PROMPTs (3 kb from TSS), & eRNA (2 kb from center) & across lincRNA gene bodies.(E) Model of redistributed H3K36me3 marks caused by SPT6 depletion. See also Figure S2. Image collected & cropped by CiteAb from the following publication (<https://pubmed.ncbi.nlm.nih.gov/30449723>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Section of human breast carcinoma. Antibody: Affinity purified rabbit anti-SUPT6H used at a dilution of 1:200 (1 μ g/ml). Detection: DAB



Section of mouse plasmacytoma. Antibody: Affinity purified rabbit anti-SUPT6H used at a dilution of 1:200 (1 μ g/ml). Detection: DAB



Publications

Djakovic L, Hennig T, Reinisch K et al. The HSV-1 ICP22 protein selectively impairs histone repositioning upon Pol II transcription downstream of genes *Nature Communications* 2023-07-31 [PMID: 37524699]

Gaballa A, Gebhardt-Wolf A, Krenz B et Al. PAF1c links S-phase progression to immune evasion and MYC function in pancreatic carcinoma *Nat Commun* 2024-02-16 [PMID: 38365788]

Lisa-Marie Appel, Vedran Franke, Johannes Benedum, Irina Grishkovskaya, Xué Strobl, Anton Polyansky, Gregor Ammann, Sebastian Platzer, Andrea Neudolt, Anna Wunder, Lena Walch, Stefanie Kaiser, Bojan Zagrovic, Kristina Djinovic-Carugo, Altuna Akalin, Dea Slade The SPOC domain is a phosphoserine binding module that bridges transcription machinery with co- and post-transcriptional regulators *Nature Communications* 2023-01-11 [PMID: 36631525]

Liming Hou, Yating Wang, Yu Liu, Nan Zhang, Ilya Shamovsky, Evgeny Nudler, Bin Tian, Brian David Dynlacht Paf1C regulates RNA polymerase II progression by modulating elongation rate *Proceedings of the National Academy of Sciences of the United States of America* 2019-07-16 [PMID: 31249142]

Yu Z, Wang Q, Zhu G et al. Decoding the genomic landscape of chromatin-associated biomolecular condensates *bioRxiv* 2023-08-25 (WB)

Hofstetter JEI MYC shapes the composition of RNA polymerase II through direct recruitment of transcription elongation factors *Thesis* 2022-01-01

Liu X, Guo Z, Han J et al. The PAF1 complex promotes 3' processing of pervasive transcripts *Cell reports* 2022-03-15 [PMID: 35294889] (WB, Mouse)

Obara E. A. A, Aguilar-Morante D, et al. SPT6-driven error-free DNA repair safeguards genomic stability of glioblastoma cancer stem-like cells. *Nat Commun* 2020-09-18 [PMID: 32948765] (Chemotaxis, Human)

Narain A, Bhandare P, Adhikari B Et Al. Targeted protein degradation reveals a direct role of SPT6 in RNAPII elongation and termination *Molecular cell* 2021-06-30 [PMID: 34233157] (Chemotaxis)

Arnold M, Bressin A, Jasnovidova O Et Al. A BRD4-mediated elongation control point primes transcribing RNA polymerase II for 3'-processing and termination *Molecular cell* 2021-07-22 [PMID: 34324863]

Studniarek C, Tellier M, Martin PGP et al. The 7SK/P-TEFb snRNP controls ultraviolet radiation-induced transcriptional reprogramming *Cell reports* 2021-04-13 [PMID: 33852864]

Lu H, Xie Y, Tran L et al. Chemotherapy-induced S100A10 recruits KDM6A to facilitate OCT4-mediated breast cancer stemness *J Clin Invest.* 2020-05-19 [PMID: 32427586] (IP, WB, KD, Human)

More publications at <http://www.novusbio.com/NB100-2582>





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NB100-2582

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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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