

# Product Datasheet

## hnRNP A2B1 Antibody (DP3B3) - BSA Free NB120-6102

Unit Size: 0.1 ml

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

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**NB120-6102**

hnRNP A2B1 Antibody (DP3B3) - BSA Free

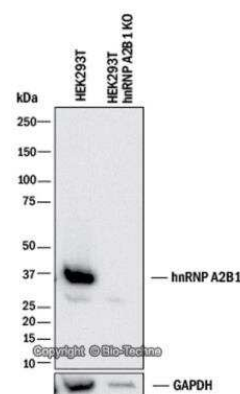
Product Information	
Unit Size	0.1 ml
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	DP3B3
Preservative	0.02% Sodium Azide
Isotype	IgG2a
Purity	Protein A purified
Buffer	PBS

Product Description	
Description	Novus Biologicals Knockout (KO) Validated Mouse hnRNP A2B1 Antibody (DP3B3) - BSA Free (NB120-6102) is a monoclonal antibody validated for use in WB, ICC/IF, IP and ChIP. Anti-hnRNP A2B1 Antibody: Cited in 9 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Mouse
Gene ID	3181
Gene Symbol	HNRNPA2B1
Species	Human, Mouse, Rat, Bovine, Canine, Chicken, Primate
Reactivity Notes	Mouse, Human, Chicken, Canine, Rat, Monkey, Bovine and Hamster.
Immunogen	Bacterially expressed human hnRNP A2 fusion protein.

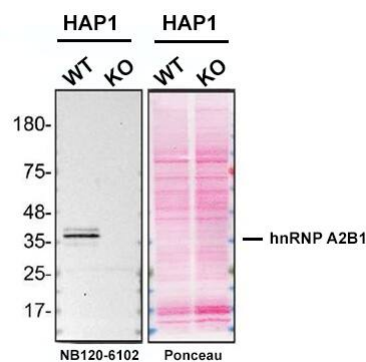
Product Application Details	
Applications	Western Blot, Chromatin Immunoprecipitation, Immunocytochemistry/ Immunofluorescence, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot 1 ug/ml, Chromatin Immunoprecipitation reported in scientific literature (PMID 31844323), Immunocytochemistry/ Immunofluorescence 1:10-1:2000, Immunoprecipitation 1:10-1:500, Chromatin Immunoprecipitation (ChIP), Knockout Validated reported in scientific literature (PMID 31844323), Knockdown Validated

**Images**

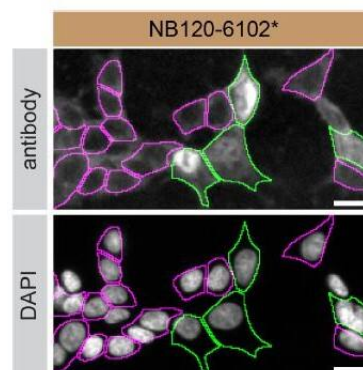
Western Blot: hnRNP A2B1 Antibody (DP3B3) [NB120-6102] - Western blot shows lysates of HEK293T human embryonic kidney parental cell line and hnRNP A1 knockout (KO) HEK293T cell line. PVDF membrane was probed with 1.0 ug/ml of Mouse Anti-Human hnRNP A1 Monoclonal Antibody (Catalog # NB120-6102) followed by HRP-conjugated Anti-Mouse IgG Secondary Antibody (Catalog #HAF018). Specific band was detected for hnRNP A1 at approximately 35 kDa (as indicated) in the parental HEK293T cell line, but is not detectable in the knockout HEK293T cell line. This experiment was conducted under reducing conditions.



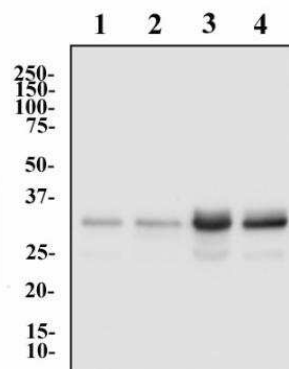
Western blot shows lysates of HAP1 human near-haploid cell line and hnRNP A2B1 knockout HAP1 cell line (KO). Nitrocellulose membrane was probed with hnRNP A2B1 Antibody (Catalog # NB120-6102) O/N at 4C, followed by HRP-conjugated Secondary Antibody and ECL detection. A specific band was detected for hnRNP A2B1 (as indicated) in the parental HAP1 cell line, but is not detectable in knockout HAP1 cell line. Primary antibody dilution used: 1/1000. The Ponceau stained transfers of each blot are shown. Image, protocol and testing courtesy of YCharOS Inc. (ycharos.com).



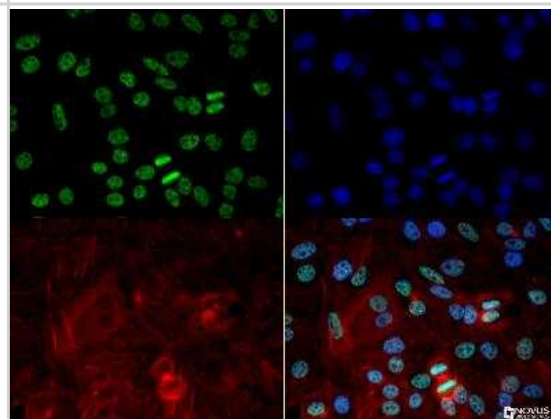
HAP1 WT and hnRNP A2B1 KO cells were labeled with a green or a far-red fluorescent dye, respectively. Cells were stained with hnRNP A2B1 antibody and with the corresponding Alexa-fluor 555 coupled secondary antibody including DAPI. Acquisition of the blue (nucleus-DAPI), green (identification of WT cells), red (antibody staining) and far-red (identification of KO cells) channels was performed. Representative images of the blue and red (grayscale) channels are shown. WT and KO cells are outlined with green and magenta dashed line, respectively. Antibody dilution used: 1/1000. Image, protocol and testing courtesy of YCharOS Inc. (ycharos.com).



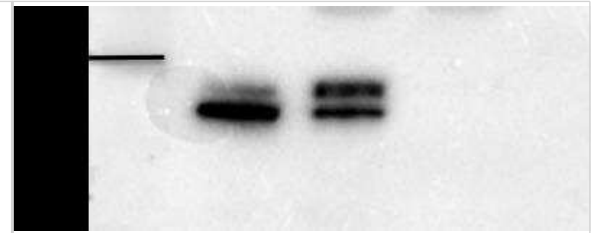
Western Blot: hnRNP A2B1 Antibody (DP3B3) [NB120-6102] - Whole cell protein from PC12 (lane 1), NIH-3T3 (lane 2), A431 (lane 3) and HeLa (lane 4) was separated by SDS-PAGE and transferred to PVDF membrane. The membrane was probed with Anti-hnRNP A2B1 at 1 ug/ml and detected with an HRP conjugated anti-mouse secondary antibody by chemiluminescence.



Immunocytochemistry/Immunofluorescence: hnRNP A2B1 Antibody (DP3B3) [NB120-6102] - The hnRNP A2B1 antibody was tested in HeLa cells at a 5ug/ml using a Dylight 488 conjugated secondary antibody (Green). Actin (Red) and DNA (Blue) were counterstained using Phalloidin 568 and DAPI.



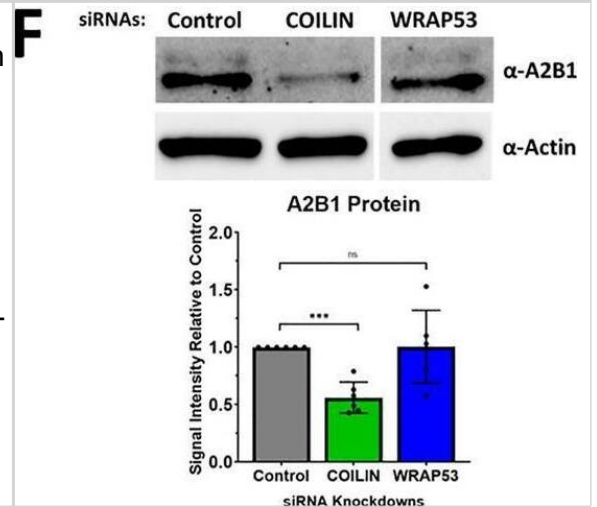
Western Blot: hnRNP A2B1 Antibody (DP3B3) [NB120-6102] - hnRNP A2B1 expression in HeLa cells. Lane 1= 15 ug of HeLa nuclear extracts Lane 2= Co-IP of hnRNP A2B1. Image and data from confirmed customer review.



Western Blot: hnRNP A2B1 Antibody (DP3B3) [NB120-6102] - Cell line lysates were separated on SDS-PAGE and probed with 2 ug/mL Monoclonal Anti-hnRNP-A2/B1 Clone: DP3B3. The antibody was developed using Goat Anti-Mouse IgG-Peroxidase and a chemiluminescent substrate. Lanes 1. HEK-293T 2. HeLa 3. G361 4. MDBK 5. MDCK 6. CHO



Coilin suppression dysregulates expression of METTL3 and hnRNPA2B1. siRNAs were transfected into cells for 72 h. RNA or protein extracts were collected and subject to qRT-PCR or Western blot, respectively. For qRT-PCR (A,D), targets included GAPDH, METTL3, and hnRNPA2B1. For Western blot (B-C, E-F), signal intensities were determined for the targets (METTL3, hnRNPA2B1) and Beta-Actin. A target/actin ratio was calculated and normalized to control with control set to 1. All qRT-PCR data represent three biological replicates with two to three technical repeats (N=8-9). All Western blot data represent at least three biological replicates with one to two technical replicates (N=5-8). Error bars represent s.d. and black points represent individual data points. \*P<0.05, \*\*\*P<0.001, \*\*\*\*P<0.0001, ns=not significant. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/38050869>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



## Publications

Erdos E, Divoux A, Sandor K et al. Unique role for lncRNA HOTAIR in defining depot-specific gene expression patterns in human adipose-derived stem cells *Genes & Development* 2022-05-01 [PMID: 35618313] (Western Blot, Mouse)

Douglas M. McLaurin, Sara K. Tucker, Michael D. Hebert Coilin mediates m<sup>6</sup>A RNA methylation through phosphorylation of METTL3 *Biology Open* 2023-12-15 [PMID: 38050869]

Vierbuchen T, Agarwal S, Johnson JL et al. The lncRNA LUCAT1 is elevated in inflammatory disease and restrains inflammation by regulating the splicing and stability of NR4A2 *Proceedings of the National Academy of Sciences of the United States of America* 2023-01-03 [PMID: 36577072]

Porman AM, Roberts JT, Duncan ED et al. A single N<sup>6</sup>-methyladenosine site regulates lncRNA HOTAIR function in breast cancer cells *PLoS biology* 2022-11-28 [PMID: 36441764] (WB, Human)

Nguyen E D, Balas M M et al. Global profiling of hnRNP A2/B1-RNA binding on chromatin highlights lncRNA interactions. *RNA Biol* 2018-06-26 [PMID: 29938567] (IP, Human)

Meredith E K, Balas M M et al. An RNA matchmaker protein regulates the activity of the long noncoding RNA HOTAIR. *RNA* 2016-01-07 [PMID: 27146324] (WB, Human)

Abakir A, Giles TC, Cristini A N<sup>6</sup>-methyladenosine regulates the stability of RNA:DNA hybrids in human cells *Nat. Genet.* 2019-12-16 [PMID: 31844323] (IP, KD, Chemotaxis, KO, Mouse)

Halbert D, Domenyuk V, Spetzler D et al. Aptamers and uses thereof United States Patent Application US 9958448 B2 2018-01-01

Hou VC, Lersch R, Gee SL et al. Decrease in hnRNP A/B expression during erythropoiesis mediates a pre-mRNA splicing switch. *EMBO J.* 2002-11-15 [PMID: 12426391] (WB, Mouse)

Bijlard M, Klunder B, de Jonge JC et al. Transcriptional expression of MBP in oligodendrocytes depends on functional syntaxin 4; a potential correlation with autocrine signalling. *Mol. Cell. Biol.* 2014-12-15 [PMID: 25512606] (ICC/IF, Rat)

### Details:

hnRNA A2B1 antibody was used for Immunocytochemical analysis of oligodendrocyte progenitor cells (OPCs), fixed in 4% PFA then permeabilized with 0.1% Triton X-100 for 30 min (FIG 6).





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### **Products Related to NB120-6102**

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NB800-PC1	HeLa Whole Cell Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-96778	Mouse IgG2a Isotype Control (M2A)

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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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