

Product Datasheet

Histone H3.1 Antibody NBP2-75524

Unit Size: 100 ul

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

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NBP2-75524

Histone H3.1 Antibody

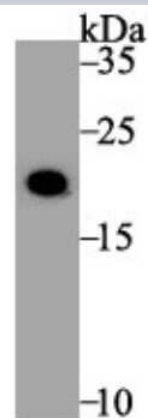
Product Information	
Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH7.4), 0.2% BSA, 50% Glycerol
Target Molecular Weight	15.4 kDa

Product Description	
Description	Novus Biologicals Rabbit Histone H3.1 Antibody (NBP2-75524) is a polyclonal antibody validated for use in IHC, WB, ICC/IF and IP. Anti-Histone H3.1 Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	8353
Gene Symbol	H3C6
Species	Human, Mouse
Immunogen	Synthetic peptide within Human Histone H3.1 aa 1-50 / 136. (SwissProt: P68431 Human; SwissProt: P68433 Mouse)

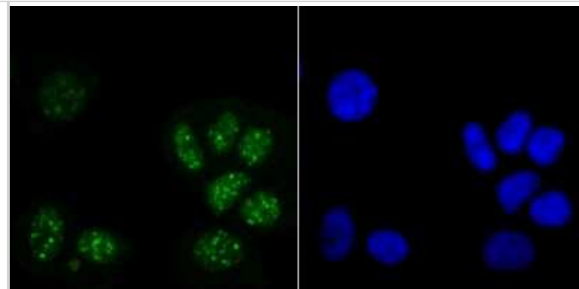
Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:500-1:1000, Immunohistochemistry, Immunocytochemistry/Immunofluorescence 1:50-1:200, Immunohistochemistry-Paraffin 1:50-1:200

Images

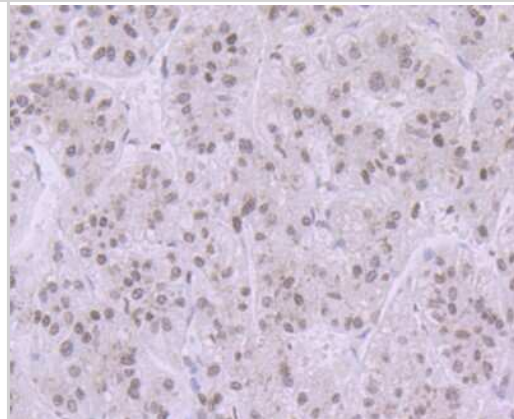
Western Blot: Histone H3.1 Antibody [NBP2-75524] - Analysis of Histone H3.1 on F9 cell lysate using anti-Histone H3.1 antibody at 1/1,000 dilution.



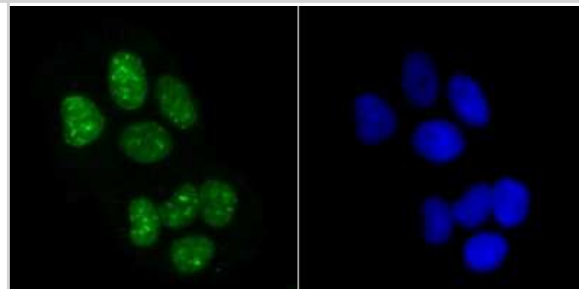
Immunocytochemistry/Immunofluorescence: Histone H3.1 Antibody [NBP2-75524] - Staining Histone H3.1 in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



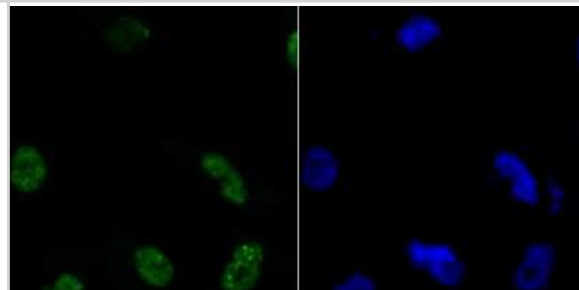
Immunohistochemistry-Paraffin: Histone H3.1 Antibody [NBP2-75524] - Analysis of paraffin-embedded human liver tissue using anti-Histone H3.1 antibody. Counter stained with hematoxylin.



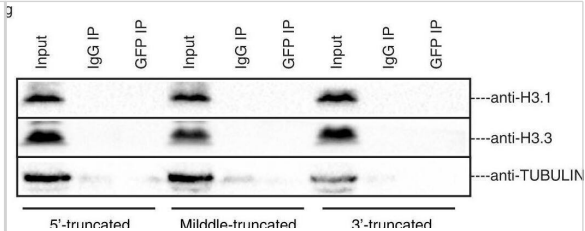
Immunocytochemistry/Immunofluorescence: Histone H3.1 Antibody [NBP2-75524] - Staining Histone H3.1 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



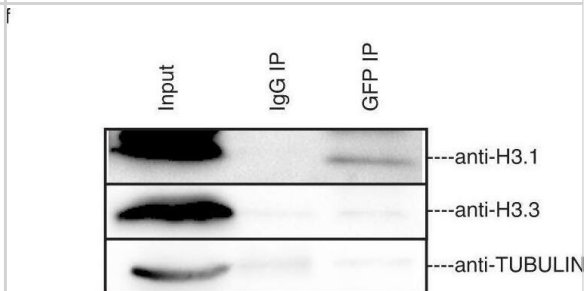
Immunocytochemistry/Immunofluorescence: Histone H3.1 Antibody [NBP2-75524] - Staining Histone H3.1 in PC-3M cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



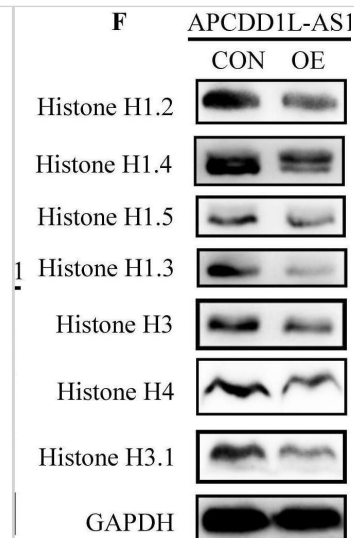
Abnormal H3K9me3 is incidental to incorrect H3.1/3.2 incorporation introduced by major satellite RNA. a Immunostaining for H3.1/3.2 and H3.3 in representative pronucleus of Ctrl and MajSat_OE zygotes. Scale bars, 20 μ m. Representative images from 3 biological replicates, with each replicate containing at least 10 zygotes. b Scatterplot showing H3.1/3.2 and H3.3 fluorescence intensity mean values in pronucleus of Ctrl and MajSat_OE zygotes. The statistical data are expressed as mean \pm SEM, * p < 0.05 and ns means not significant (H3.1/3.2: male p = 0.0438, female p = 0.6590, H3.3: male p = 0.0380, female p = 0.5885) by two-sided Student's t test for each comparison. Each treatment contains 3 biological replicates, with each replicate containing at least 5 zygotes. c Immunostaining for H3K14ac in representative pronucleus of Ctrl and Lsm1_KD zygote. Scale bars, 20 μ m. Representative images from 3 biological replicates, with each replicate containing at least 10 zygotes. d Immunostaining for H3K14ac in representative pronucleus of Ctrl and MajSat_OE zygote. Scale bars, 20 μ m. Representative images from 3 biological replicates, with each replicate containing at least 10 zygotes. e Scheme for the RNA pulldown to determine the interaction between MajSat RNA and H3.1/H3.3. f, g Pulldown of H3.1, H3.3 using intact and truncated MajSat RNA. Representative images from 3 biological replicates. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/36810573>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



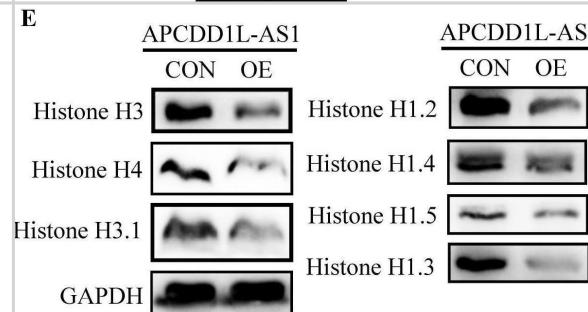
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APCDD1L-AS1 overexpression induced histones expression disorders. A The overexpression efficiency of APCDD1L-AS1 in OSRC2 cells. B The TMT results showed that 39 proteins were downregulated and 66 proteins were upregulated in APCDD1L-AS1 overexpressed OSRC2 cells compared with its control cells. C Biological Process GO term enrichment analysis results of the complete 105 statistically significant proteins. D The TMT results of Histone H3.1, Histone H4, Histone H3, Histone H1.3, Histone H1.5, Histone H1.4 and Histone H1.2. E The protein expression of Histone H3.1, Histone H4, Histone H3, Histone H1.3, Histone H1.5, Histone H1.4 and Histone H1.2 in the same cell protein samples. F The protein expression of Histone H3.1, Histone H4, Histone H3, Histone H1.3, Histone H1.5, Histone H1.4 and Histone H1.2 in the in mice tumors. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/35414787>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



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Publications

Xu H, Akinyemi IA, Haley J et al. ATM, KAP1 and the Epstein-Barr virus polymerase processivity factor direct traffic at the intersection of transcription and replication *Nucleic acids research* 2023-10-19 [PMID: 37852757] (IP, Human)

Zhu J, Chen K, Sun YH et al. LSM1-mediated Major Satellite RNA decay is required for nonequilibrium histone H3.3 incorporation into parental pronuclei *Nature communications* 2023-02-21 [PMID: 36810573] (WB, Mouse)

Yang W, Zhou J, Zhang Z et al. Downregulation of lncRNA APCDD1L-AS1 due to DNA hypermethylation and loss of VHL protein expression promotes the progression of clear cell renal cell carcinoma *International Journal of Biological Sciences* 2022-03-21 [PMID: 35414787] (WB, Human)



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

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