

Product Datasheet

CHD1 Antibody NB100-60411

Unit Size: 0.1 ml

Store at 4C. Do not freeze.

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Publications: 7

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NB100-60411

CHD1 Antibody

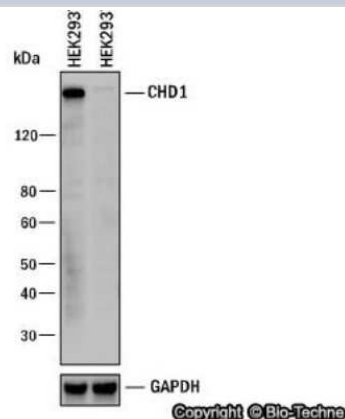
Product Information	
Unit Size	0.1 ml
Concentration	0.2 mg/ml
Storage	Store at 4C. Do not freeze.
Clonality	Polyclonal
Preservative	0.09% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	TBS and 0.1% BSA

Product Description	
Description	Novus Biologicals Knockout (KO) Validated Rabbit CHD1 Antibody (NB100-60411) is a polyclonal antibody validated for use in WB, IP and ChIP. Anti-CHD1 Antibody: Cited in 7 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	1105
Gene Symbol	CHD1
Species	Human, Mouse
Reactivity Notes	Mouse reactivity reported in scientific literature (PMID: 20161795).
Immunogen	The immunogen recognized by this antibody maps to a region between residue 1660 and 1710 of human chromodomain helicase DNA binding protein 1 using the numbering given in entry NP_001261.2 (GeneID 1105).

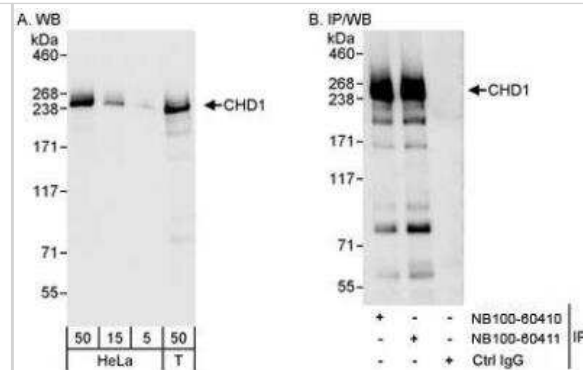
Product Application Details	
Applications	Western Blot, Immunoprecipitation, Chromatin Immunoprecipitation (ChIP), Chromatin Immunoprecipitation Sequencing, Knockdown Validated, Knockout Validated
Recommended Dilutions	Western Blot 1:2000-1:10000, Immunoprecipitation 2-5 ug/mg lysate, Chromatin Immunoprecipitation (ChIP) 1-5 ug/mg lysate, Knockout Validated, Chromatin Immunoprecipitation Sequencing, Knockdown Validated
Application Notes	WB in human was reported in the following publication: PMID: 21880597

Images

Western Blot: CHD1 Antibody [NB100-60411] - Western blot shows lysates of HEK293T human embryonic kidney parental cell line and CHD1 knockout (KO) HEK293T cell line. PVDF membrane was probed with 1:2000 of Rabbit Anti-Human CHD1 Polyclonal Antibody (Catalog # NB100-60411) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog #HAF008). Specific band was detected for CHD1 at approximately 260 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.



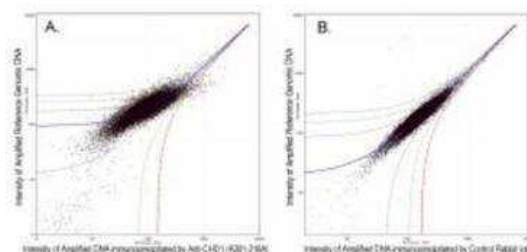
Western Blot: CHD1 Antibody [NB100-60411] - Detection of Human CHD1 on HeLa whole cell lysate using NB100-60411. CHD1 was also immunoprecipitated by rabbit anti-CHD1 antibody NB100-60410.



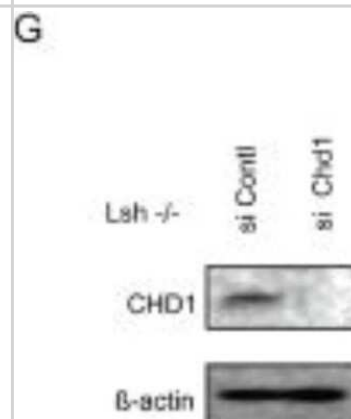
Chromatin Immunoprecipitation Sequencing: CHD1 Antibody [NB100-60411] - Localization of CHD1 Binding Sites by ChIP-sequencing. Chromatin from K562 cells was immunoprecipitated with anti-CHD1 antibody NB100-60411 and analyzed by DNA sequencing. The figure illustrates the peak distribution of CHD1 binding within a 3.5 Mb region of the human X chromosome as detected using anti-CHD1 antibody NB100-60411. ChIP-seq validation performed by Diogenode, Denville, NJ.



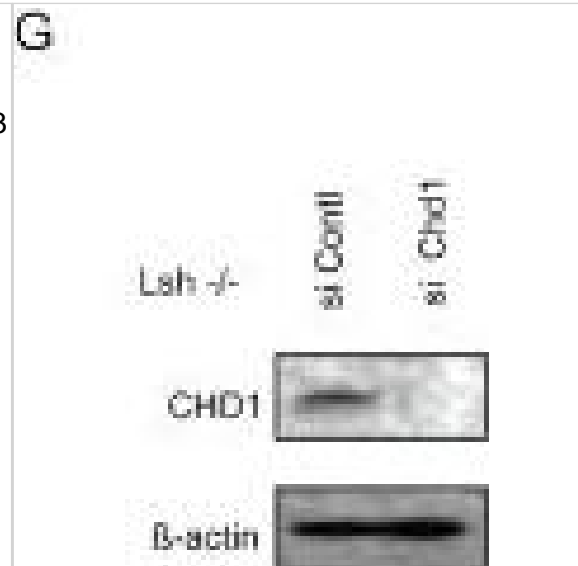
Chromatin Immunoprecipitation: CHD1 Antibody [NB100-60411] - ChIP-chip scatter plot of anti-CHD1 (NB100-60411) enriched DNA binding sites versus input reference DNA. CHD1 was used to immunoprecipitate chromatin from K562 cells according to Ren et al (Genes Dev. 2002 16: 245-256). Immunoprecipitated DNA and reference DNA were amplified via ligation-mediated PCR and the products labeled with fluorescent dUTPs. The labeled ChIP and reference DNA were pooled, hybridized to a DNA microarray, and analyzed. Data points below the +3 SD curve (red line) represent significantly enriched binding sites. B. As a control, a similar experiment was performed using normal rabbit IgG. Compared to the anti-CHD1 ChIP, normal rabbit IgG showed little enrichment.



Immunocytochemistry/ Immunofluorescence: CHD1 Antibody [NB100-60411] - Chromatin marks associated with transcriptional elongation are increased in the absence of Lsh. Western analysis for detection of Chd1 protein comparing whole cell extracts derived from Lsh^{-/-}MEFs targeted by Chd1 siRNA or control siRNA. Image collected and cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0009163>), licensed under a CC-BY license.



Chromatin marks associated with transcriptional elongation are increased in the absence of Lsh. (A) Schematic diagram depicting the position of the primer pairs (black lines) used for ChIP analysis. Comparison of the ratio of H3K36Me3 (B), H3K79Me2 (C) and H3K4Me3 (E) enrichment to total H3 occupancies (Fig. S6) between Lsh WT and Lsh^{-/-}-MEFs at up, TSS, down and 3'UTR regions of HoxC6 and HoxC8 genes. (D) ChIP analysis for the detection of Ser 2 RNA Pol II (H5). (F) ChIP analysis for detection of Chd1. (G) Western analysis for detection of Chd1 protein comparing whole cell extracts derived from Lsh^{-/-}-MEFs targeted by Chd1 siRNA or control siRNA (H) Real-time RT-PCR analysis detecting HoxC6 and HoxC8 mRNA in Lsh^{-/-} MEFs after targeting by Chd1 siRNA compared to control treated cells. Results represent standard deviations for the mean of three independent experiments. Asterix indicates a p value $p < 0.05$. Image collected and cropped by CiteAb from the following open publication (<https://pubmed.ncbi.nlm.nih.gov/20161795>), licensed under a CC0-1.0 license. Not internally tested by Novus Biologicals.



Publications

Kareddula A, Medina DJ, Petrosky W et al. The role of chromodomain helicase DNA binding protein 1 (CHD1) in promoting an invasive prostate cancer phenotype Ther Adv Urol 2021-08-04 [PMID: 34408788] (Chemotaxis, Western Blot, Mouse)

Shahin Varnoosfaderani F, Palau A, Dong W et al. A regulatory role for CHD2 in myelopoiesis Epigenetics 2020-01-10 [PMID: 31900031] (WB, Human)

Cheng LC, Tan VM, Ganesan S, Drake JM. Integrating phosphoproteomics into the clinical management of prostate cancer. Clin Transl Med 2017-12-01 [PMID: 28197968] (IP, Human)

Huang S, Gulzar ZG, Salari K et al. Recurrent deletion of CHD1 in prostate cancer with relevance to cell invasiveness. Oncogene 2012-09-13 [PMID: 22179824] (Human)

Tao Y, Xi S, Briones V et al. Lsh mediated RNA polymerase II stalling at HoxC6 and HoxC8 involves DNA methylation. PLoS One. 2010-02-11 [PMID: 20161795] (Chemotaxis, WB, Mouse)

Liu W, Lindberg J, Sui G et al. Identification of novel CHD1-associated collaborative alterations of genomic structure and functional assessment of CHD1 in prostate cancer. Oncogene 2012-08-01 [PMID: 22139082]

Tao Y, Liu S, Briones V et al. Treatment of breast cancer cells with DNA demethylating agents leads to a release of Pol II stalling at genes with DNA-hypermethylated regions upstream of TSS. Nucleic Acids Res. 2011-12-01 [PMID: 21880597] (WB, Human)



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Products Related to NB100-60411

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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