CHD1 Antibody

Rabbit Polyclonal

Antigen Affinity Purified

Catalog No. A301-218A

Lot No. A301-218A-1

Protein ID NP_001261.2

GeneID 1105

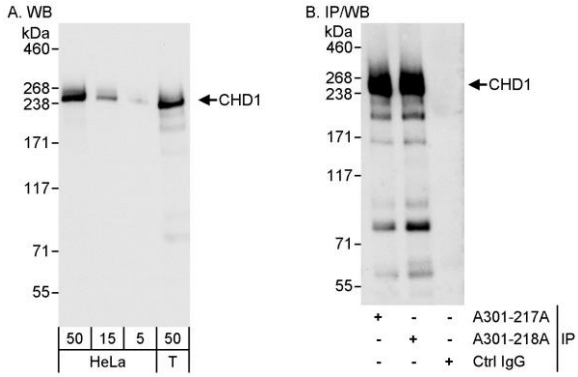
APPLICATIONS	WB, IP, ChIP, ChIP-chip, ChIP-Seq
SPECIES REACTIVITY	Human
PRESUMED REACTIVITY	Based on 100% sequence identity, this antibody is predicted to react with Chicken
AMOUNT	100 µl
CONCENTRATION	200 µg/ml
STORAGE/SHELF LIFE	2 - 8° C / 1 year from date of receipt
PHYSICAL STATE	Liquid
BUFFER	Tris-buffered Saline containing 0.1% BSA and 0.09% Sodium Azide
ISOTYPE	IgG
ORIGIN	USA
PRODUCTION PROCEDURES	Antibody was affinity purified using an epitope specific to CHD1 immobilized on solid support. The epitope recognized by A301-218A 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). Immunoglobulin concentration was determined by extinction coefficient: absorbance at 280 nm of 1.4 equals 1.0 mg of IgG.
APPLICATIONS	Centrifuge tube to remove product from lid. Optimal working dilutions should be determined experimentally by the investigator. Prepare working dilution immediately before use.

Western Blot	1:2,000 - 1:10,000
Immunoprecipitation	2 - 5 µg/mg lysate
ChIP	1 - 5 µg
ChIP-chip	10 µg per
ChIP-Seq	1 µg

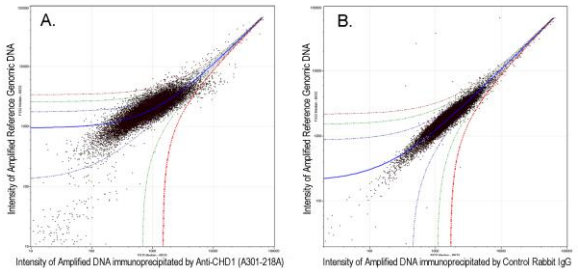
APPLICATION NOTES	Western blot of immunoprecipitates performed using Normal Pig Serum (Cat. No. S100-020), Goat anti-Rabbit Light Chain HRP Conjugate (Cat. No. A120-113P) and 4-8% SDS-PAGE (link to IP-western blot protocol in Additional Info section below). Western blot of lysates performed using standard western blot reagents and 4-8% SDS-PAGE.
ADDITIONAL INFO	https://www.bethyl.com/product/A301-218A Use the link above to view SDS, a current list of citations, and other product specific information. IP-western blot protocol: https://www.bethyl.com/content/protocol_IP_WB

This document certifies that this product has met all of the quality control standards defined by Bethyl Laboratories, Inc.

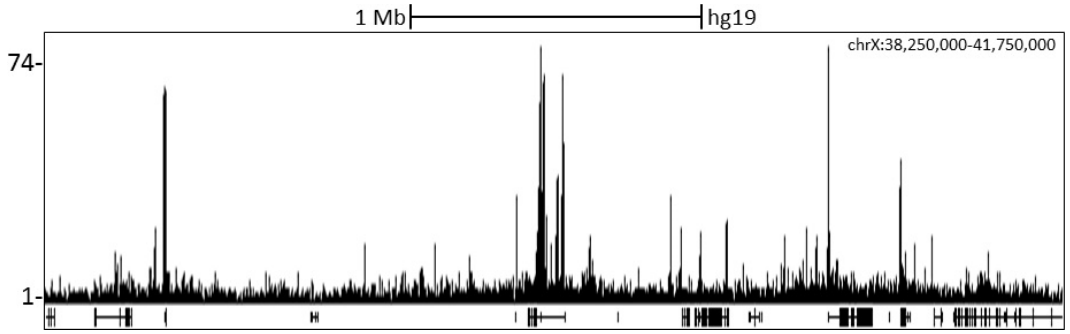
Eric McIntush, PhD | Chief Scientific Officer Date: June 21, 2019



Detection of human CHD1 by western blot and immunoprecipitation. *Samples:* Whole cell lysate from HeLa (5, 15 and 50 µg for WB; 1 mg for IP, 20% of IP loaded) and HEK293T (T; 50 µg) cells. *Antibodies:* Affinity purified rabbit anti-CHD1 antibody A301-218A used for WB at 0.04 µg/ml (A) and 1 µg/ml (B) and used for IP at 3 µg/mg lysate. CHD1 was also immunoprecipitated by rabbit anti-CHD1 antibody A301-217A, which recognizes an upstream epitope. *Detection:* Chemiluminescence with exposure times of 3 seconds (A) and 10 seconds (B).



ChIP-chip scatter plot of anti-CHD1 (A301-218A) enriched DNA binding sites versus input reference DNA. A. 10 µg of A301-218A was used to immunoprecipitate chromatin from K-562 cells according to Ren et al (Genes Dev. 2002 16: 245-256). immunoprecipitatesd 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-CHD1ChIP, normal rabbit IgG showed little enrichment.



Localization of CHD1 Binding Sites by ChIP-sequencing. Chromatin from K562 cells was immunoprecipitated with anti-CHD1 antibody A301-218A 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 A301-218A. ChIP-seq validation performed by Diogenode, Denville, NJ.