

ENCODE DCC Antibody Validation Document

Date of Submission

Name:

Email:

Lab

Antibody Name:

Target:

Company/
Source:

Catalog Number, database ID, laboratory

Lot Number

Antibody
Description:

The epitope recognized by this antibody maps to a region between residue 1660 and 1710 of human chromatin domain helicase DNA binding protein 1 using the numbering given in entry NP_001261.2 (GeneID 1105).

Target
Description:

ATP-dependent chromatin-remodeling factor which functions as substrate recognition component of the transcription regulatory histone acetylation (HAT) complex SAGA. Regulates polymerase II transcription. Also required for efficient transcription by RNA polymerase I and more specifically the polymerase I transcription termination step. Regulates negatively DNA replication. Not only involved in transcription-related chromatin-remodeling, but also required to maintain a specific chromatin configuration across the genome. Is also associated with histone deacetylase (HDAC) activity. By SHRNIP complex, required for the bridging of SHRNIP, the PAC1 complex, the EAR complex as well as the U2 through physical bridging of spliceosomal components to H3K4me3. Required for maintaining open

Species Target

Species Host

Validation Method #1

Validation Method #2

Purification
Method

Polyclonal/
Monoclonal

Vendor URL:

Reference (PI/
Publication
Information)

Please complete the following for antibodies to histone modifications:
if your specifications are not listed in the drop-down box,
please write-in the appropriate information

Histone Name AA modified AA Position Modification

A band of ~240 kD (expected size of Chd1) is efficiently immunoprecipitated from MEL and CH12 lysates by NB100-60411. This antibody has been previously validated by immunoblotting in human cell lines K562, GM12878, and HeLa S3 as well as by Mass Spec analysis of proteins immunoprecipitated by this antibody, and this validation information has been submitted. In combination with the previously submitted data, NB100-60411 meets the ENCODE criteria for validation in murine cell lines CH12 and MEL.

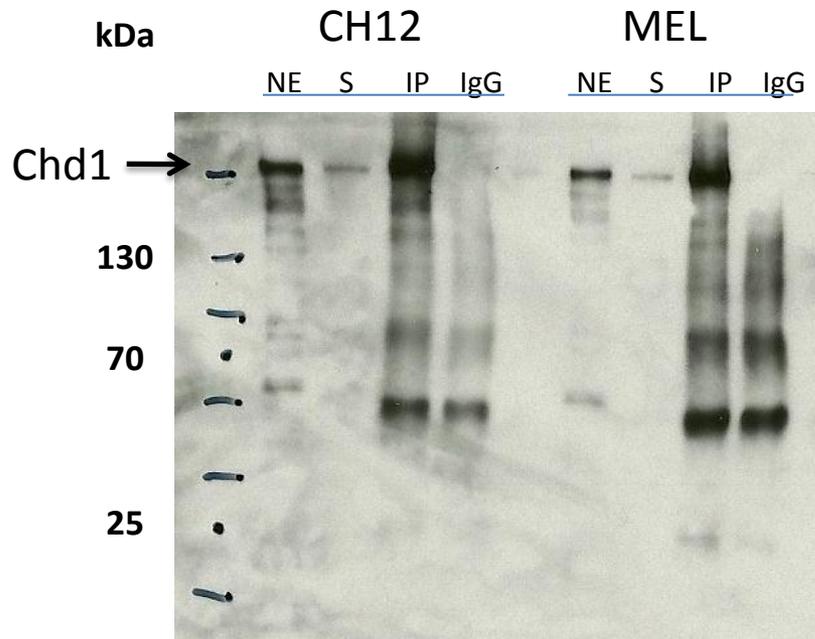
Validation #1
Analysis

Insert Validation Image (click here)

Antibody: CHD1 Source: Novus Biologicals NB100-60411

Epitope: CHD1 antibody is a rabbit polyclonal IgG, epitope mapping at 1660 and 1710 of human CHD1

Validation 1: Immunoprecipitation (IP) in both CH12 and MEL cell lines



Arrow indicates immunoprecipitated band of expected size of Chd1 in both CH12 and MEL cell lines (~240 kDa).

NE: nuclear extract

S: supernatant after IP

IP: IP with tested antibody

IgG: IP with control IgG

This antibody has been validated by IP-Mass Spec analysis in K562 cells. Please see the validation document for this antibody in human cell lines for details.

Validation #2
Analysis

Insert Validation Image (Click here)

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