

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:

Synthetic peptide (Human) conjugated to KLH, which represents a portion within the last 100 amino acids of the human Structural Maintenance of Chromosomes-3 (GenBank PID 4883399), conjugated to KLH.

Target
Description:

This gene belongs to the SMC3 subfamily of SMC proteins. The encoded protein occurs in certain cell types as either an intracellular, nuclear protein or a secreted protein. The nuclear form, known as structural maintenance of chromosomes 3, is a component of the multimeric cohesin complex that holds together sister chromatids during mitosis, enabling proper chromosome segregation. Post-translational modification of the encoded protein by the addition of chondroitin sulfate chains gives rise to the secreted proteoglycan bamacan, an abundant basement membrane protein. (provided by RefSeq)

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 consistent with the expected size of SMC3 (~145 kD) is efficiently immunoprecipitated from a CH12 and MEL nuclear lysate using antibody ab9263. This antibody has been validated for human cell lines using Immunoprecipitation and CHIP.

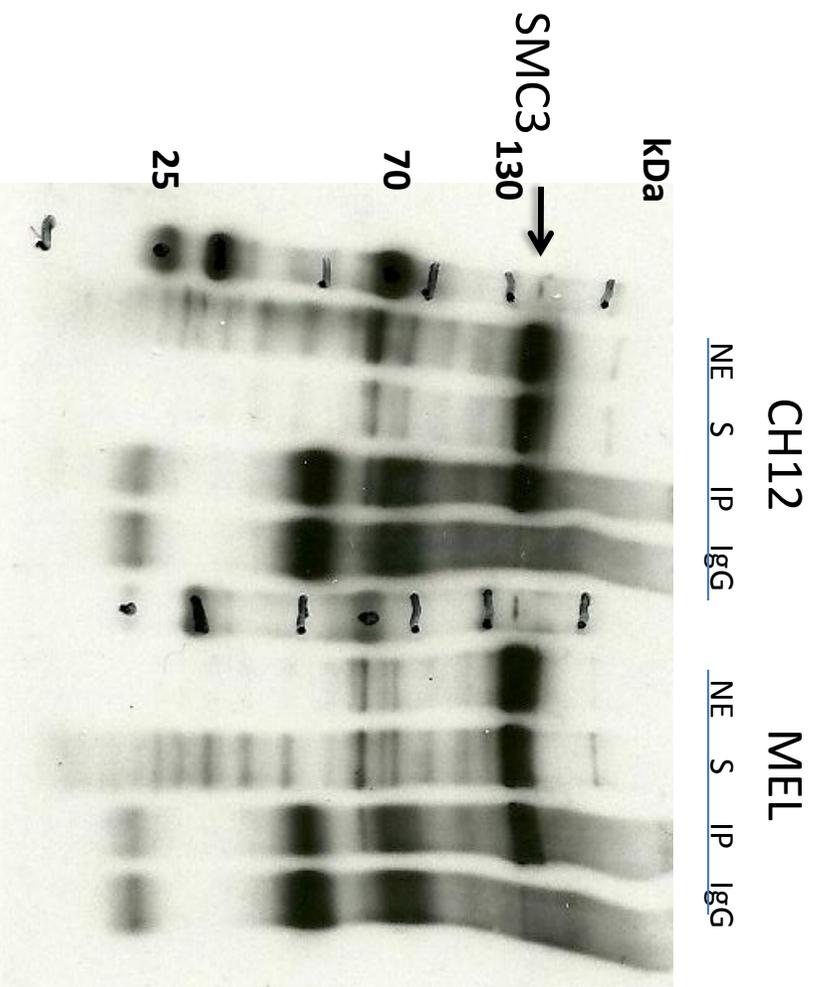
Validation #1
Analysis

Insert Validation Image (click here)

Antibody: SMC3 Source: Abcam ab9263

Epitope: NELF-E Antibody is rabbit polyclonal IgG, epitope corresponding to last 100 amino acids of the human SMC3

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



Arrow indicates immunoprecipitated band of expected size of SMC3 in both CH12 and MEL cell lines (~145 kDa).

NE: nuclear extract

S: supernatant after IP

IP: IP with tested antibody

IgG: IP with control IgG

The antibody ab9263 has been validated by ChIP-Seq for human cell lines. Please see validation documents for human cell lines for details.

Validation #2
Analysis

Insert Validation Image (Click here)