# ENCODE DCC Antibody Validation Document

Date of Submission

Name:

Email:

Lab

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Antibody Name:

Target:

Company/ Source:

Catalog Number, database ID, laboratory

Lot Number

Antibody Description:

Target Description:

Species Target

Species Host

Validation Method #1

Validation Method #2

Purification Method

Polyclonal/ Monoclonal

Vendor URL:

Reference (PI/ Publication Information)

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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

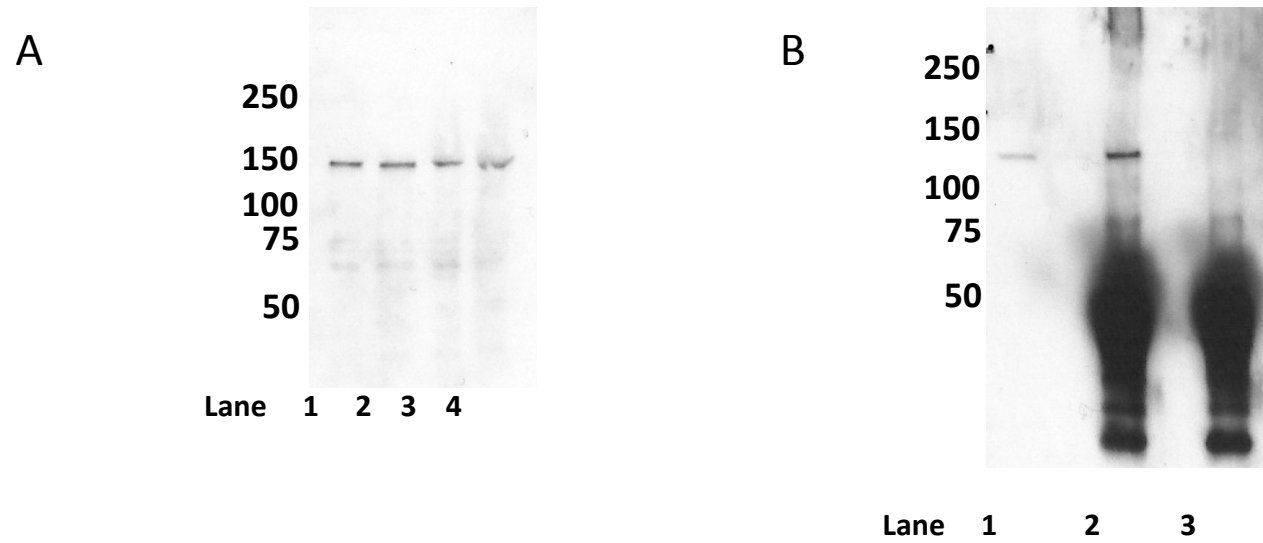AA modified

AA Position

Modification

Validation #1
Analysis
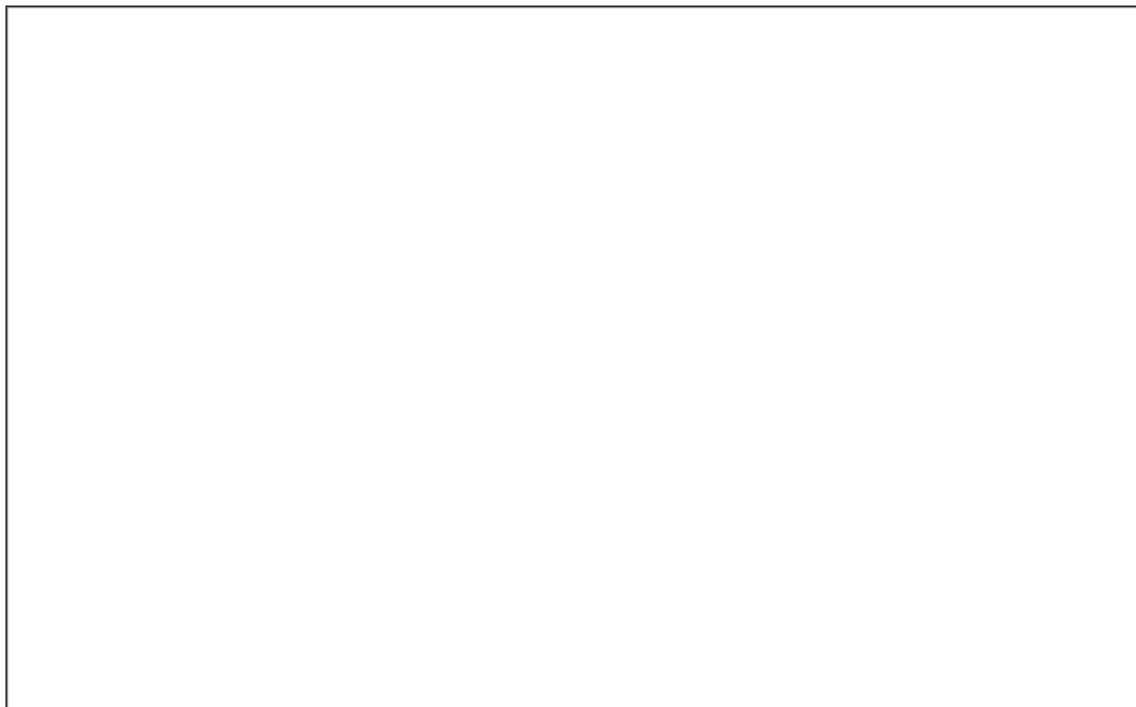
Insert Validation Image (click here)

# ab9263 (SMC3) immunoblot

A

| | |
|---|---|
| 250 | |
| 150 | — — — — |
| 100 | |
| 75 | |
| 50 | |

Lane   1   2   3   4

B

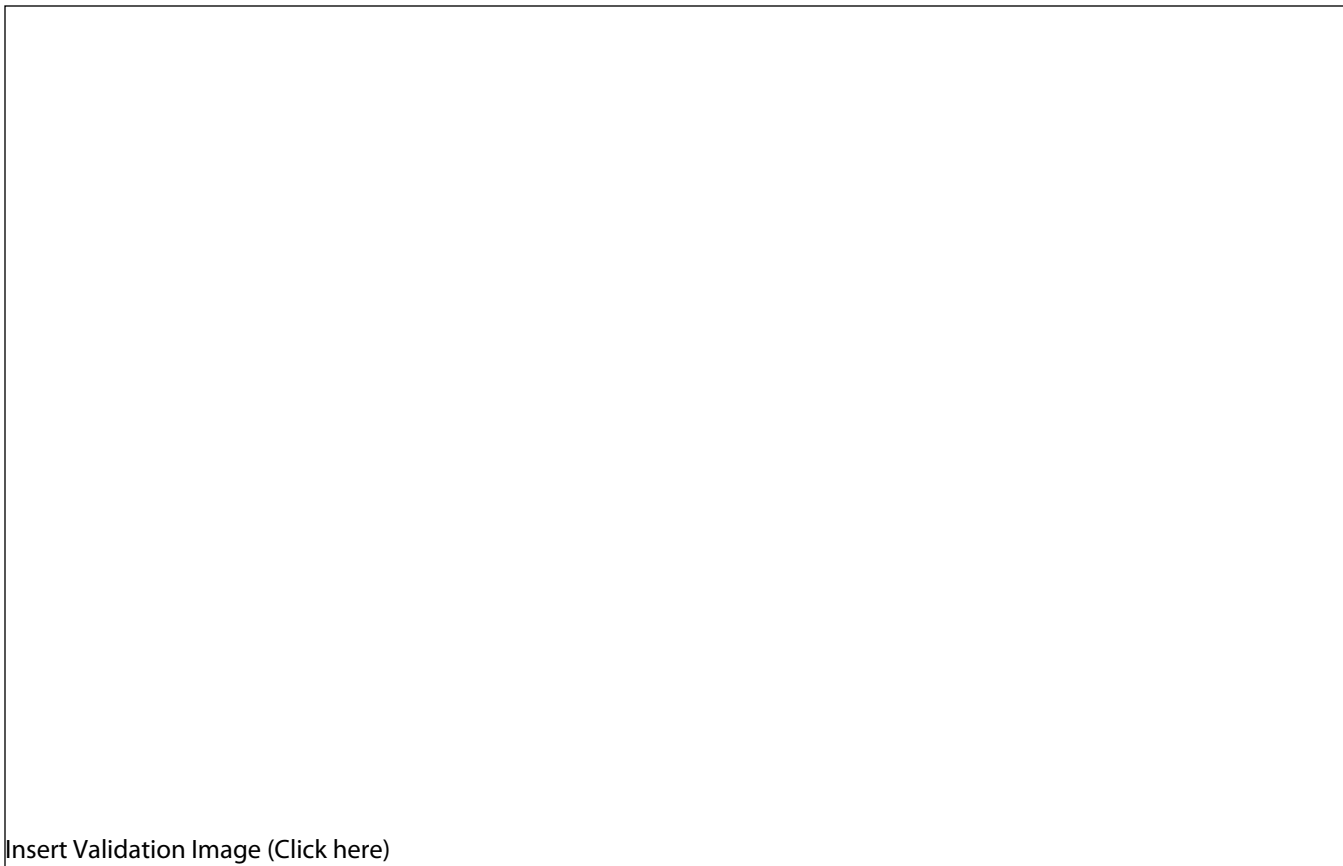| | |
|---|---|
| 250 | |
| 150 | |
| 100 | |
| 75 | |
| 50 | |

Lane   1   2   3

**A.** Western blot using ab9263. Lanes contain nuclear lysates from GM12878 cells (Lane 1), K562 cells (Lane 2), HeLa S3 cells (Lane 3), and HepG2 cells (Lane 4).
**B.** Immunoprecipitation of SMC3 from K562 cells using ab9263. Lane 1: input nuclear lysate, Lane 2: material immunoprecipitated with ab9263, Lane 3: material immunoprecipitated using control IgG.

Validation #2
Analysis

Insert Validation Image (Click here)

## Comparison of ab9263 (SMC3) with ab992 (Rad21)

| | SMC3-ab9263 vs. Rad21- ab992 | Rad21- ab992 vs. SMC3-ab9263 |
|---|---|---|
| Total hits ratio (Q=.01) | 1.11 | 0.90 |
| % Peak overlap (Q=.01) | **96.75** | **99.28** |