

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 represented a portion of human Rad21 encoded within exon 14 (LocusLink ID 5885).

Target
Description:

The protein encoded by this gene is highly similar to the gene product of *Schizosaccharomyces pombe rad21*, a gene involved in the repair of DNA double-strand breaks, as well as in chromatid cohesion during mitosis. This protein is a nuclear phospho-protein, which becomes hyperphosphorylated in cell cycle M phase. The highly regulated association of this protein with mitotic chromatin specifically at the centromere region suggests its role in sister chromatid cohesion in mitotic cells. (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 of ~130kD was immunoprecipitated from CH12 and MEL nuclear extracts using ab992. This antibody has been validated for human cell lines by Immunoprecipitation and siRNA knockdown.

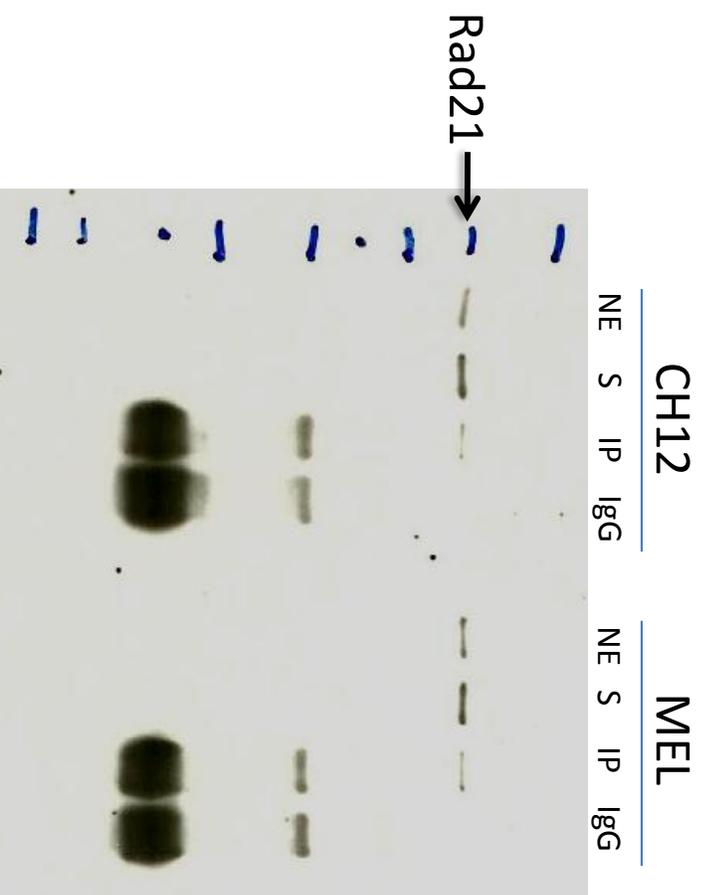
Validation #1
Analysis

Insert Validation Image (click here)

Antibody: Rad21 Source: Abcam ab992

Epitope: Rad21 Antibody is rabbit polyclonal, epitope represented a portion of human Rad21 encoded within exon 14

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



Arrow indicates immunoprecipitated band of expected size of Rad21 in both CH12 and MEL cell lines (~130 kDa).

NE: nuclear extract

S: supernatant after IP

IP: IP with tested antibody

IgG: IP with control IgG

This antibody has been validated by siRNA knockdown for human cell. See documents submitted for human cell lines for details.

Validation #2
Analysis

Insert Validation Image (Click here)