# ENCODE Antibody Validation Documentation Transcription factor: RAD21 homolog (S. pombe) (GenelD 5885)

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**Transcription factor:** RAD21 (GeneID 5885; ~72 kDa)

**Antibody:** RAD21, Abcam (ab992) **Lot numbers:** 891751, 940739

Rabbit polyclonal, raised against synthetic peptide (human) conjugated to KLH,

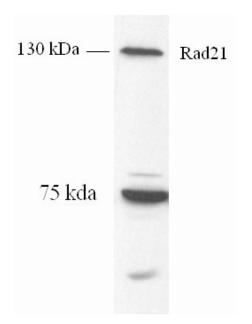
representing portion of human RAD21 encoded within exon 14

Web: http://www.abcam.com/Rad21-antibody-ChIP-Grade-ab992.html

## **Validation 1: Immunoblot Analysis**

For an antibody to meet ENCODE validation standards, a single band of the predicted size, or a band of no less than half the total signal, must be detected in a lane on a Western blot.

#### a. Vendor immunoblot analysis

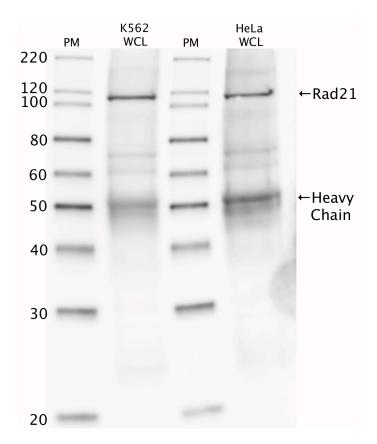


**Figure Legend:** Western blot analysis of RAD21 expression in HeLa whole cell extract.

### b. Myers Lab immunoblot analysis

### Western blot protocol

Whole cell lysates were immunoprecipitated using primary antibody, and the IP fraction was loaded on a 12% acrylamide gel and separated with a Bio-Rad PROTEAN II xi system. After separation, the samples were transferred to a nitrocellulose membrane with an Invitrogen iBlot system. Blotting with primary (same as that used for IP) and secondary HRP-conjugated antibodies was performed on an Invitrogen BenchPro 4100 system. Visualization was achieved using SuperSignal West Femto solution (Thermo Scientific).



**Figure Legend:** RAD21 immunoblot: IP-western with ab992 RAD21 antibody in whole cell lysates (WCL) of K562 and HeLa. Heavy chain of IgG is indicated, and RAD21 band is indicated at ~120 kDa.

## Validation 2: In progress