

# Rad21 Rabbit mAb

Catalog No.: A19749

Recombinant

1 Publications

## Basic Information

**Observed MW**

130kDa

**Calculated MW**

72kDa

**Category**

Primary antibody

**Applications**

WB, ELISA, ChIP, ChIP-seq

**Cross-Reactivity**

Human, Mouse, Rat

**CloneNo number**

ARC2276


## Background

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 phosphoprotein, 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.

## Recommended Dilutions

**WB** 1:1000 - 1:2000**ELISA** Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.**ChIP** 5µg antibody for 10µg-15µg of Chromatin**ChIP-seq** 1:50 - 1:100

## Contact

 | 400-999-6126 | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn) | [www.abclonal.com.cn](http://www.abclonal.com.cn)

## Immunogen Information

**Gene ID**

5885

**Swiss Prot**

O60216

**Immunogen**

Synthetic peptide. This information is considered to be commercially sensitive.

**Synonyms**

MGS; HR21; MCD1; NXP1; SCC1; CDLS4; hHR21; HRAD21; Rad21

## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

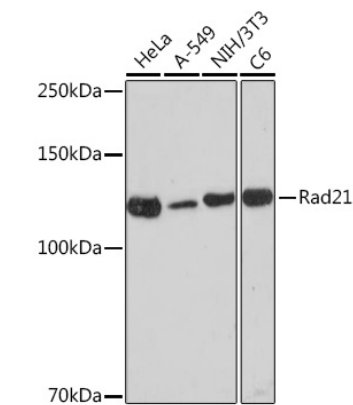
Affinity purification

**Storage**

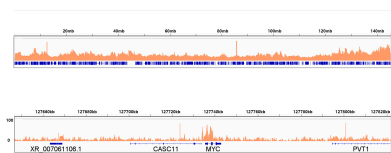
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

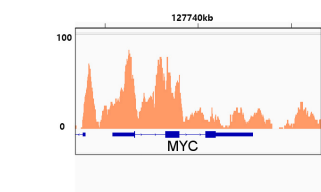
Validation Data



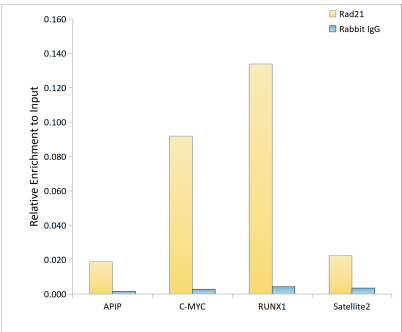
Western blot analysis of various lysates using Rad21 Rabbit mAb (A19749) at 1:1000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Enhanced Kit (RM00021). Exposure time: 180s.



Chromatin immunoprecipitation was performed with 10.7 µg of cross-linked chromatin from A-549 cells using 5 µg of Rad21 Rabbit mAb (A19749). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina V2 (RK20228). The ChIP sequencing results indicate the enrichment pattern of Rad21 across chromosome 8 (upper panel) and the genomic region encompassing MYC, a representative gene enriched in Rad21 (lower panel).



Chromatin immunoprecipitation was performed with 10.7 µg of cross-linked chromatin from A-549 cells using 5 µg of Rad21 Rabbit mAb (A19749). DNA libraries were prepared using Scale ssDNA-seq Lib Prep Kit for Illumina V2 (RK20228). The ChIP sequencing results indicate the enrichment pattern of Rad21 in the representative genomic region surrounding MYC gene.



Chromatin immunoprecipitation analysis of extracts of A-549 cells, using Rad21 antibody (A19749) and rabbit IgG. The amount of immunoprecipitated DNA was checked by quantitative PCR. Histogram was constructed by the ratios of the immunoprecipitated DNA to the input.