

## Anti-Rad21 antibody, rabbit polyclonal, affinity purified

Cat. # 70-105 50 µg

### Description

Rad21 (631 aa, 71 kDa) is a cleavable component of cohesin complex, involved in chromosome cohesion during cell cycle, in DNA repair, and in apoptosis. The cohesin complex is required for the cohesion of sister chromatids after DNA replication. The cohesin complex apparently forms a large proteinaceous ring within which sister chromatids can be trapped. At metaphase-anaphase transition, this protein is cleaved by separase/ESPL1 and dissociates from chromatin, allowing sister chromatids to segregate.

### Applications

- 1) Western blot (1/2,000 dilution)
  - 2) Immunofluorescence staining (1/100~1/500 dilution)
- Other applications have not been

### Specification

Reactivity: Reacts with Rad21 of human, mouse and hamster.

Immunogen: Human Rad21 C-terminal peptide, C-ATPGPRFHII

Purification: Affinity purified with immunogen peptide from rabbit antiserum

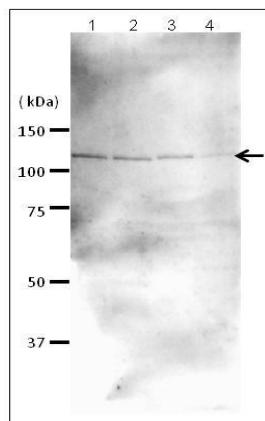
Form: 1mg/ml in PBS, 50% glycerol, filter-sterilized, sodium azide and carrier-free

Storage: Ship at 4°C. Upon arrival, centrifuge and store at -20°C.

**Data Link** UniProtKB/Swiss-Prot [O60216](#) (RAD21\_HUMAN)

**Reference:** This product has been described and used in the following reference.

Toyoda Y and Yanagida M. (2006) Coordinated Requirements of Human Topo II and Cohesin for Metaphase Centromere Alignment under Mad2-dependent Spindle Checkpoint Surveillance" *Mol. Biol. Cell.* 17: 2287-2302 (2006) PMID: [1446084](#) WB, IF

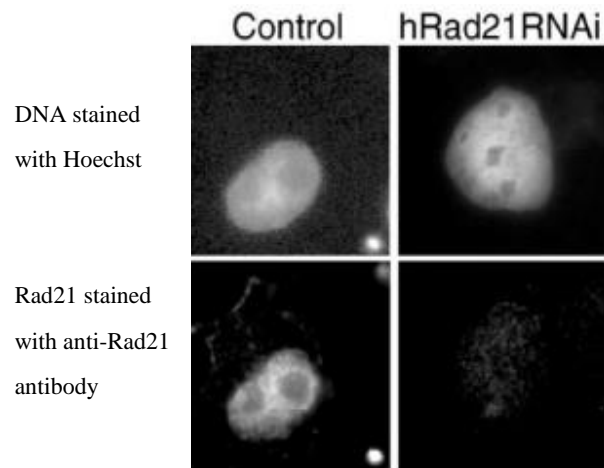


**Fig.1 Western blot analysis of Rad21 in the whole cell extracts**

Anti-Rad antibody was used at 1/2,000 dilution. Rad21 migrates as a ~120 kDa protein (Reference)

Samples: Crude extracts, 10~20 µg

1. HeLa (human)
2. MCF-7 (human)
3. NIH3T3 (mouse)
4. CHO (hamster)



**Fig. 2 Immunofluorescence staining of Rad21.**

Specific immunostaining is confirmed by the disappearance of stained Rad21 in the cells transfected with hRad21-specific RNAi (right-bottom figure). The cells are extracted in a buffer containing 0.5% Triton X-100 on ice before paraformaldehyde fixation.