

## Rad52 Protein (human)

10-003 20ug, 10-004 100ug

**Human Rad52 protein** plays a major role in genetic recombination and recombination repair by mediating strand-annealing reaction between complementary DNA strands (1). **Rad52** functionally and physically interacts with Rad51, Dmc1, and RPA in recombination processes. In radiation damaged cells, **Rad52** is phosphorylated at Tyr104 by c-Abl tyrosine kinase and forms nuclear foci (2).

The product was highly purified from *E. coli* over-expressing **human Rad52 protein** as a recombinant protein (3).

### Applications

- 1) Studies on homologous recombination in mammals including human
- 2) Studies on the interaction of Rad52 protein with various proteins
- 3) To be used as a standard for Western blotting

### Specification

**Purity:** > 90% as judged from SDS-PAGE analysis (Fig.1)

**Form:** 1.0 mg/ml in 20 mM Hepes-KOH, 0.2 M KCl, 0.5 mM EDTA, 1 mM DTT, 10 % Glycerol

**Storage:** -70°C

**Data Link** UniProtKB/Swiss-Prot [P43351](#) (RAD52\_HUMAN)

**References:** This product was used in reference 3.

1. Friedberg EC *et al* *DNA Repair and Mutagenesis* 2<sup>nd</sup> ed., ASM Press (2006)
2. Kitao H & Yuan Z M "Regulation of ionizing radiation-induced Rad52 nuclear foci formation by c-Abl-mediated phosphorylation." *J Biol Chem* **277**:48944-48948 (2002) PMID: [12379650](#)
3. Kagawa W *et al* "Homologous pairing promoted by the human Rad52 protein." *J Biol Chem* **276**: 35201-35208 (2001) PMID: [11454867](#)

### Related Products :

**70-011** Anti-Rad52 (human) rabbit affinity purified antibody

[10-001](#) Rad51 (human) protein

[70-001](#) Anti-Rad51 (human) rabbit antiserum

[70-003](#) Anti-Rad51 (human) chicken antiserum

[70-005](#) AntiRad51 (human) IgY

[70-007](#) Anti-Rad51 (human) IgY-conjugated resin

[70-009](#) Anti-Rad51 (human) IgY, antigen affinity purified

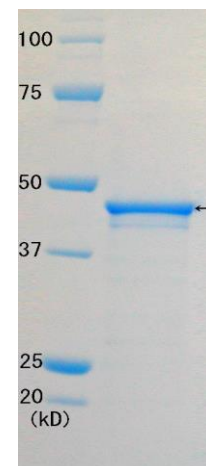


Fig.1 Analysis of purified human Rad52 protein by SDS-PAGE