

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* 2nd 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

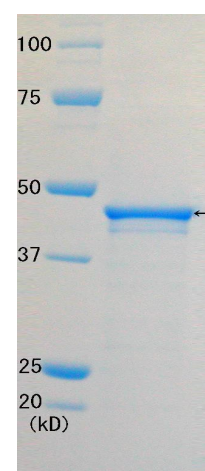


Fig.1 Analysis of purified human Rad52 protein by SDS-PAGE