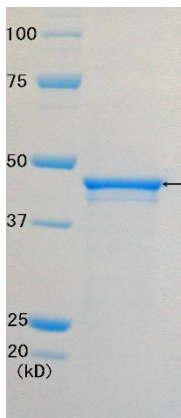


Rad52 Protein (human)

Product code	10-003 10-004
Size	20 µg 100 µg
Storage	-80°C. Avoid freeze-thaw cycles.
Product Description	The product was highly purified from <i>E. coli</i> over-expressing human Rad52 protein as a recombinant protein (3).
Concentration	1.0 mg/ml
Buffer	20 mM Hepes-KOH, 0.2 M KCl, 0.5 mM EDTA, 1 mM DTT, 10 % Glycerol
Purity	> 90% as judged from SDS-PAGE analysis (Fig.1)
Application	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
Background	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).
Data Image	 Fig.1 Analysis of purified human Rad52 protein by SDS-PAGE
Data Link	UniProtKB P43351 (RAD52_HUMAN)
References	This product was used in reference 3. 1. Friedberg EC <i>et al</i> <i>DNA Repair and Mutagenesis</i> 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." <i>J Biol Chem</i> 277:48944-48948 (2002) PMID: 12379650 3. Kagawa W <i>et al</i> "Homologous pairing promoted by the human Rad52 protein." <i>J Biol Chem</i> 276: 35201-35208 (2001) PMID: 11454867
Related Products	10-001 Rad51 (human) protein 70-001 Anti-Rad51 (human) antibody, rabbit serum 70-005 AntiRad51 (human) antibody, chicken polyclonal (IgY)
Please note: All products are FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES. NOT FOR MILITARY USE.	