

Active Recombinant Full Length Human RAD52 Protein

Cat. No. RAD52-135H Lot. No. (See product label)

SPECIFICATION

Product Overview	The product was highly purified from E. coli over-expressing Full Length Human Rad52 protein as a recombinant protein, phosphorylated at Tyr104.
Species	Human
Source	E.coli
ProteinLength	1-418 a.a.
Description	Human Rad52 protein plays a major role in genetic recombination and recombination repair by mediating strand-annealing reaction between complementary DNA strands. 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.
Form	20 mM potassium phosphate pH 7.5, 200 mM KCl, 2 mM 2ME, 0.5 mM EDTA, 20% glycerol
Purity	>90% as judged from SDS-PAGE analysis
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
Storage	Store at -70°C.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	RAD52 RAD52 homolog (S. cerevisiae) [Homo sapiens]
Official Symbol	RAD52
Synonyms	RAD52; RAD52 homolog (S. cerevisiae); RAD52 (S. cerevisiae) homolog; DNA repair protein RAD52 homolog; recombination protein RAD52; rhabdomyosarcoma antigen MU-RMS-40.23;
Gene ID	5893
mRNA Refseq	NM_134424
Protein Refseq	NP_602296
MIM	600392
UniProt ID	P43351
Chromosome Location	12p13-p12.2
Pathway	Assembly of the RAD51-ssDNA nucleoprotein complex, organism-specific biosystem; DNA Repair, organism-specific biosystem; Double-Strand Break Repair, organism-specific biosystem; Homologous DNA pairing and strand exchange, organism-specific biosystem; Homologous Recombination Repair, organism-specific biosystem; Homologous recombination, organism-specific biosystem; Homologous recombination, conserved biosystem;
Function	DNA binding; protein binding;

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