

Recombinant Human RAD52 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. RAD52-4785H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RAD52 MS Standard C13 and N15-labeled recombinant protein (NP_602296) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene shares similarity with <i>Saccharomyces cerevisiae</i> Rad52, a protein important for DNA double-strand break repair and homologous recombination. This gene product was shown to bind single-stranded DNA ends, and mediate the DNA-DNA interaction necessary for the annealing of complementary DNA strands. It was also found to interact with DNA recombination protein RAD51, which suggested its role in RAD51 related DNA recombination and repair. A pseudogene of this gene is present on chromosome 2. Alternative splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known.
Molecular Mass	46 kDa
AA Sequence	MSGTEEAILGGRDSDHPAAGGGSVLCFGQCQYTAEYQAIQKALRQRLGPEYISSRM AGGGQKVCYIEGHRVINLANEMFGYNGWAHSITQQNVDFVDLNNGKFYVGVCAFV RVQLKDGSYHEDVG YGVSEGLKSKALSLEKARKEAVTDGLKRALRSFGNALGNCIL DKDYLRSLNKLPRQLPLEVDLTKAKRQDLEPSVEEARYNSCRPNMALGHPQLQQVT

 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

SPSRPSHAVIPADQDCSSRSLSSSAVESEATHQRKLRQKQLQQQFRERMEKQQVR
VSTPSAEKSEAAPPAPPVTHSTPVTVSEPLLEKDFLAGVTQELIKTLEDNSEKWAVTP
DAGDGVVKPSSRADPAQTSDTLALNNQMVTQNRTPHSVCHQKPQAKSGSWDLQT
YSADQRTTGNWESHKRSQDMKKRKYDPSTRTRPLEQKLISEEDLAANDILDYKDDD
DKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name [RAD52](#) [RAD52 homolog, DNA repair protein \[Homo sapiens \(human\) \]](#)

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](#)

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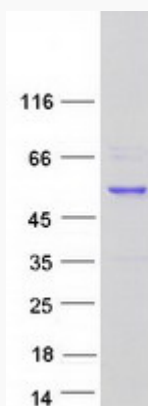
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Protein Refseq NP_602296

MIM 600392

UniProt ID P43351

SDS-PAGE



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