

Recombinant Human RAD51C

Cat. No. RAD51C-28601TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment of Human Rad51C with a N terminal proprietary tag; Predicted MWt 40.48 kDa including the tag.
Species	Human
Source	Wheat Germ
ProteinLength	134 amino acids
Description	This gene is a member of the RAD51 family of related genes, which encode strand-transfer proteins thought to be involved in recombinational repair of damaged DNA and in meiotic recombination. This gene product interacts with two other DNA repair proteins, encoded by RAD51B and XRCC3, but not with itself. The protein copurifies with XRCC3 protein in a complex, reflecting their endogenous association and suggesting a cooperative role during recombinational repair. This gene is one of four localized to a region of chromosome 17q23 where amplification occurs frequently in breast tumors. Overexpression of the four genes during amplification has been observed and suggests a possible role in tumor progression. Alternative splicing has been observed for this gene and two variants encoding different isoforms have been identified.
Molecular Weight	40.480kDa inclusive of tags
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	MRGKTFRFEMQRDLVSFPLSPAVRVKLVSAGFQTAEELLEVKPSELSKEVGISKAEA LETLQIIRRECLTNKPRYAGTSESHKKCTALELLEQEHTQGGFIITFCSALDDILGGGVP LMKTTEICGAPGVGKTQL

GENE INFORMATION

Gene Name	RAD51C RAD51 homolog C (S. cerevisiae) [Homo sapiens]
Official Symbol	RAD51C
Synonyms	RAD51C; RAD51 homolog C (S. cerevisiae); RAD51 (S. cerevisiae) homolog C; DNA repair protein RAD51 homolog 3; RAD51L2;
Gene ID	5889
mRNA Refseq	NM_002876
Protein Refseq	NP_002867
MIM	602774
Uniprot ID	O43502
Chromosome Location	17q25.1

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Pathway	Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; Fanconi anemia pathway, organism-specific biosystem; Fanconi anemia pathway, conserved biosystem; Hemostasis, organism-specific biosystem; Homologous recombination, organism-specific biosystem;
Function	ATP binding; DNA binding; DNA-dependent ATPase activity; crossover junction endodeoxyribonuclease activity; nucleoside-triphosphatase activity;

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