

## Recombinant Human RAD51 Protein, isoform 2

**Cat. No.** RAD51-02H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human RAD51 protein was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>The protein encoded by this gene is a member of the RAD51 protein family. RAD51 family members are highly similar to bacterial RecA and Saccharomyces cerevisiae Rad51, and are known to be involved in the homologous recombination and repair of DNA. This protein can interact with the ssDNA-binding protein RPA and RAD52, and it is thought to play roles in homologous pairing and strand transfer of DNA. This protein is also found to interact with BRCA1 and BRCA2, which may be important for the cellular response to DNA damage. BRCA2 is shown to regulate both the intracellular localization and DNA-binding ability of this protein. Loss of these controls following BRCA2 inactivation may be a key event leading to genomic instability and tumorigenesis. Multiple transcript variants encoding different isoforms have been found for this gene.</p>
<b>Form</b>	20 mM Tris-HCl, 0.15 M NaCl, pH8.0.
<b>AA Sequence</b>	<p>MAMQMQLLEANADTSVEEESFGPQPISRLEQCGINANDVKKLEEAGFHTVEAVAYAP            KKELINIKGISEAKADKILTESRSVARLECNVILVYCTLRSLSGSSDSPASASRVVGT            GGIETGSITEMFGFRTGKTQICHTLAVTCQLPIDRGGGEGKAMYIDTEGTFRPERLL            AVAERYGLSGSDVLDNVAYARAFNTDHQTQLLYQASAMMVESRYALLIVDSATALY</p>

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RTDYSGRGELSARQMHLARFLRMLLRLADEFVAVVITNQVVAQVDGAAMFAADPK  
KPIGGNIIAHASTTRLYLRKGRGETRICKIYDSPCLPEAEAMFAINADGVGDAKD

**Purity** >90 % as determined by SDS-PAGE.

**Storage** Short Term Storage at 4 centigrade, Long Term Storage at -20 centigrade to -80 centigrade. Avoid freeze/thaw cycles.

**Concentration** 0.1 mg/ml

## GENE INFORMATION

**Gene Name** RAD51 RAD51 recombinase [ Homo sapiens (human) ]

**Official Symbol** RAD51

**Synonyms** RECA; BRCC5; FANCR; MRMV2; HRAD51; RAD51A; HsRad51; HsT16930

**Gene ID** 5888

**mRNA Refseq** NM\_133487.4

**Protein Refseq** NP\_597994.3

**MIM** 179617

**UniProt ID** Q06609

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