

Recombinant Human RAD51 Protein, Myc/DDK-tagged

Cat. No. RAD51-125H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant protein of human RAD51 homolog (RecA homolog, E. coli) (<i>S. cerevisiae</i>) (RAD51), transcript variant 1 with a C-Myc/DDK tag was expressed in HEK293T.
Species	Human
Source	HEK293
Description	The protein encoded by this gene is a member of the RAD51 protein family. RAD51 family members are highly similar to bacterial RecA and <i>Saccharomyces cerevisiae</i> 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.
Molecular Mass	36.8 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and

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handling conditions. Avoid repeated freeze-thaw cycles.

Storage	Store at -80 centigrade.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol

GENE INFORMATION

Gene Name	RAD51 RAD51 recombinase [Homo sapiens (human)]
Official Symbol	RAD51
Synonyms	RAD51; RAD51 recombinase; RECA; BRCC5; FANCR; MRMV2; HRAD51; RAD51A; HsRad51; HsT16930; DNA repair protein RAD51 homolog 1; BRCA1/BRCA2-containing complex, subunit 5; RAD51 homolog A; RecA, E. coli, homolog of; RecA-like protein; recombination protein A
Gene ID	5888
mRNA Refseq	NM_002875
Protein Refseq	NP_002866
MIM	179617
UniProt ID	Q06609

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