Recombinant Huamn RAD51 Protein

Cat. No. RAD51-101H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Huamn RAD51 Protein was expressed in E. coli.
Species	Human
Source	E.coli
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 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.
Form	20 mM Tris-HCl, 100 mM KCl, 1 mM DTT, 0.5 mM EDTA, 10% glycerol, pH 8.0.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Concentration	0.15 mg/ml

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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_001164269
Protein Refseq	NP_001157741
MIM	179617
UniProt ID	Q06609
SDS-PAGE	Reducing 12% SDS-PAGE analysis profile of purified Tag free RAD51_ T131P (CBB stained).

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