

Recombinant Human RAD51 (G151D) Mutation Protein, Trx/His-tagged

Cat. No. RAD51-01H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RAD51 (G151D) Mutation Protein with a Trx/His tag 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 <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	54 kDa
AA Sequence	MSDKIIHLTDDSFDTDLKADGAILVDFWAEWCGPCKMIAPILDEIADEYQGKLTVAK LNIDQNPGTAPKYGIRGIPTLLLFKNGEVAATKVGALSKGQLKEFLDANLAGSGSGH

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MHHHHHHSSGLVPRGSGMKETAAAKFERQHMDSPDLGTDDDDKMAMQMQLAN
 ADTSVEEESFGPQPISRLEQCGINANDVKKLEEAGFHTVEAVAYAPKKELINIKGISEA
 KADKILTESRSVARLECNVILVYCTLRLSGSSDSPASASRVVGTGGIETGSITEMF
 GEFRTGKTQICHTLAVTCQLPIDRDGGEGKAMYIDTEGTFRPERLLAVAERYGLSGS
 DVLDNVAYARAFNTDHQTQLLYQASAMMVESRYALLIVDSATALYRTDYSGRGELS
 ARQMHLARFLRMLLRLADEFGVAVVITNQVVAQVDGAAMFAADPKKPIGGNIIAHAS
 TTRLYLKGRGETRICKIYDSPCLPEAEAMFAINADGVGDAKD

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

0.2 mg/mL

Storage Buffer

PBS buffer

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_133487

Protein Refseq

NP_597994

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MIM	179617
UniProt ID	Q06609
SDS-PAGE	Reducing SDS-PAGE analysis profile of purified RAD51_G151D Lane M: Marker Lane 1: Crude sample Lane 2: Flow through Lane3, 4: Elution
WB	WB analysis profile of purified RAD51_G151D Lane M: Marker Lane 1: Protein