

Recombinant Full Length Human RAD51 Protein, C-Flag-tagged

Cat. No. RAD51-279HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human RAD51 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	36.8 kDa
AA Sequence	MAMQMQLLEANADTSVEEESFGPQPISRLEQCGINANDVKKLEEAGFHTVEAVAYAP

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KKELINIKGISEAK ADKILAEAAKLVPMGFTTATEFHQRRSEIIQITTGSKELDKLLQGG
 IETGSITEMFGEFRTGKTQICHTL AVTCQLPIDRGGGEGKAMYIDTEGTFRPERLLAV
 AERYGLSGSDVLDNVAYARAFNTDHQTQLLYQASAM MVESRYALLIVDSATALYRT
 DYSGRGELSARQMHLARFLRMLLRLADEFGVAVVITNQVVAQVDGAAMFA
 ADPKKPIGGNIIAHASTTRLYLRKGRGETRICKIYDSPCLPEAEAMFAINADGVGDAK
 DTRTRPLEQKLISEEDLAANDILDYKDDDDKV

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 handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Stem cell - Pluripotency, Transcription Factors
Protein Pathways	Homologous recombination, Pancreatic cancer, Pathways in cancer
Full Length	Full L.

GENE INFORMATION

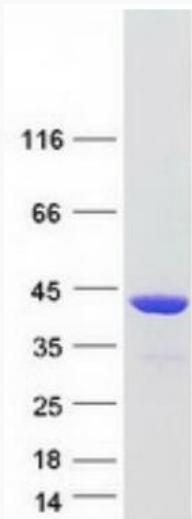
Gene Name	RAD51 RAD51 recombinase [Homo sapiens (human)]
Official Symbol	RAD51

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Synonyms	RECA; BRCC5; FANCR; MRMV2; HRAD51; RAD51A; HsRad51; HsT16930
Gene ID	5888
mRNA Refseq	NM_002875.5
Protein Refseq	NP_002866.2
MIM	179617
UniProt ID	Q06609



Coomassie blue staining of purified RAD51 protein.