

Recombinant Full Length Human RAD51 Protein, His-avi-tagged, Biotin Labeled

Cat. No. RAD51-03HB **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human RAD51 Protein with His-avi-tag was expressed in E. coli. Purified protein was labeled with biotin via avi.
Species	Human
Source	E.coli
ProteinLength	1-339 aa
Conjugation/Label	Biotin
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 I centigradealization 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	Sterile PBS, pH7.4

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Molecular Mass	40 kDa
AASequence	MAMQMQLLEANADTSVEEESFGPQPISRLEQCGINANDVKKLEEAGFHTVEAVAYAP KKELINIKGISEAKADKILAEAAKLVPMTTATEFHQRRSEIIQITTSKELDKLLQGGI ETGSITEMFGEFRTGKTQICHTLAVTCQLPIDRGGGEGKAMYIDTEGTFRPERLLAVA ERYGLSGSDVLDNVAYARAFNTDHQTQLLYQASAMMVESRYALLIVDSATALYRTD YSGRGELSARQMHLARFLRMLLRLADEFGVAVVITNQVVAQVDGAAMFAADPKKPI GGNIIHAHASTTRLYLRKGRGETRICKIYDSPCLPEAEAMFAINADGVGDAKDGLNDIF EAQKIEWHEHHHHHHHH
Endotoxin	< 1 EU/μg by LAL
Purity	> 80% by SDS-PAGE
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	0.07 mg/mL by BCA
Labeling Efficiency	4.01 By HABA
GENE INFORMATION	
Gene Name	RAD51 RAD51 homolog (<i>S. cerevisiae</i>) [<i>Homo sapiens</i> (human)]
Official Symbol	RAD51
Synonyms	RAD51; RAD51 homolog (<i>S. cerevisiae</i>); RAD51 (<i>S. cerevisiae</i>) homolog (<i>E. coli</i> RecA homolog), RAD51 homolog (RecA homolog, <i>E. coli</i>) (<i>S. cerevisiae</i>), RAD51A, RECA; DNA repair protein RAD51 homolog 1; BRCA1/BRCA2 containing complex; subunit 5; BRCC5; HsRad51; HsT16930; RAD51 homolog A; RecA-like protein;

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recombination protein A; RecA, E. coli, homolog of; RAD51 homolog (RecA homolog, E. coli); BRCA1/BRCA2-containing complex, subunit 5; RECA; MRMV2; HRAD51; RAD51A;

Gene ID 5888

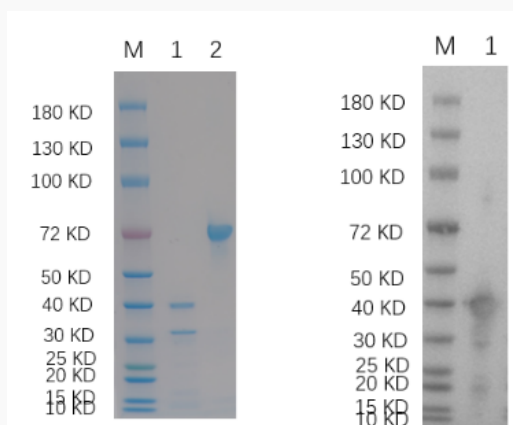
mRNA Refseq NM_001164269

Protein Refseq NP_001157741

MIM 179617

UniProt ID Q06609

SDS-PAGE and WB



Reducing 4%-20% SDS-PAGE (CBB stained) and WB (Anti-His Mouse Monoclonal antibody) analysis profiles of purified RAD51. 1. RAD51: 1 µg 2. BSA: 1 µg

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