

Recombinant Human RAD51B protein, T7/His-tagged

Cat. No. RAD51B-121H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human RAD51B (383aa, Isoform-I, derived from BC030219) fused with T7-His-TEV cleavage site Tag at N-terminal and 11R tag fusion at C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	383 a.a.
Form	1.0 mg/ml, sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, EDTA, Sucrose and DTT.
AA Sequence	MASMTGGQQMGRGRHHHHHHENLYFQGGFEGSKKLKRVGLSQELCDRLSRHQILT CQDFLCLSPLELMKVTGLSYR GVHELLCMVSRACAPKMQTAYGIKAQRSADFSPAF LSTTLSALDEALHGGVACGSLTEITGPPGCGKTQFCIMMS ILATLPTNMGGLEGAVV YIDTESAFSAERLVEIAESRFPRYFNTEEKLLLLTSSKVHLYRELTCDLQRIESLEE E IISKGIKLVILDSVASVVRKEFDAQLQGNLKERNKFLAREASSLKYLAEEFSIPVILTNQI TTHLSGALASQAD LVSPADDLSLSEGTSGSSCVIAALGNTWSHSVNTRLILQYLDSE RRQILIAKSPLAPFTSFVYTIKEEGLVLQET TFCSVTQAELNWAPEILPPQPPEQLGL QMCHHTQLIFLEESGGGGSPGRRRRRRRRRRRR
Purity	>90% by SDS-PAGE
Applications	1. May be used for in vitro RAD51B mediated double-stranded DNA repair pathway

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regulation study by intracellular delivery of this protein.2. May be used for RAD51B protein-protein interaction mapping.3. May be used as specific substrate protein for kinase and ubiquitin (Sumo pathway) related enzyme functional screening assays.4. As antigen for specific antibody production.

Storage

Keep at -80 centigrade for long term storage. Product is stable at 4 centigrade for at least 30 days.

GENE INFORMATION

Gene Name

RAD51B RAD51 homolog B (*S. cerevisiae*) [*Homo sapiens*]

Official Symbol

RAD51B

Synonyms

RAD51B; RAD51 homolog B (*S. cerevisiae*); RAD51 (*S. cerevisiae*) like 1 , RAD51 like 1 (*S. cerevisiae*) , RAD51L1; DNA repair protein RAD51 homolog 2; hREC2; R51H2; REC2; RecA-like protein; recombination repair protein; RAD51L1; MGC34245;

Gene ID

5890

mRNA Refseq

NM_002877

Protein Refseq

NP_002868

MIM

602948

UniProt ID

O15315

**Chromosome
Location**

14q23-q24.2

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Pathway

Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; Hemostasis, organism-specific biosystem; Homologous recombination, organism-specific biosystem; Homologous recombination, conserved biosystem;

Function

ATP binding; DNA binding; DNA-dependent ATPase activity; nucleoside-triphosphatase activity; nucleotide binding; protein binding;

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