Recombinant human RAD51B, His-tagged

Cat. No. RAD51B-2465H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human RAD51B protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-350 a.a.
Description	RAD51B is a member of the RAD51 protein family. RAD51 family members are evolutionarily conserved proteins essential for DNA repair by homologous recombination. This protein has been shown to form a stable heterodimer with the family member RAD51C, which further interacts with the other family members, such as RAD51, XRCC2, and XRCC3. Overexpression of this gene was found to cause cell cycle G1 delay and cell apoptosis, which suggested a role of this protein in sensing DNA damage.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea
Molecular Mass	40.6kDa (373aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMGSKKLK RVGLSQELCD RLSRHQILTC QDFLCLSPLE LMKVTGLSYR GVHELLCMVS RACAPKMQTAYGIKAQRSAD FSPAFLSTTL SALDEALHGG VACGSLTEIT GPPGCGKTQF CIMMSILATL PTNMGGLEGA VVYIDTESAF SAERLVEIAE SRFPRYFNTE EKLLLTSSKV

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	HLYRELTCDE VLQRIESLEE EIISKGIKLV ILDSVASVVR KEFDAQLQGN LKERNKFLAR EASSLKYLAEEFSIPVILTN QITTHLSGAL ASQADLVSPA DDLSLSEGTS GSSCVIAALG NTWSHSVNTR LILQYLDSER RQILIAKSPL APFTSFVYTI KEEGLVLQAY GNS
Purity	>85 % by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4C short term (1-2 weeks). For long term storage, aliquot and store at -20C or -70C. Avoid repeated freezing and thawing cycles.
Concentration	1.0 mg/ml (determined by Bradford assay)

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

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MIM	602948
UniProt ID	O15315
Chromosome Location	14q23-q24.2
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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