

# Recombinant human RAD51B protein

Catalog Number: ATGP2465

## PRODUCT INFORMATION

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**Expression system**

E.coli

**Domain**

1-350aa

**UniProt No.**

O15315

**NCBI Accession No.**

NP\_002868

**Alternative Names**DNA repair protein RAD51 homolog 2 isoform 1, RAD51 homolog B (*S. cerevisiae*), R51H2, RAD51L1, REC2

## PRODUCT SPECIFICATION

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**Molecular Weight**

40.6 kDa (373aa)

**Concentration**

0.5mg/ml (determined by Bradford assay)

**Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing , 10% glycerol, 0.4M urea

**Purity**

&gt; 85% by SDS-PAGE

**Tag**

His-Tag

**Application**

SDS-PAGE, Denatured

**Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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**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. Recombinant human RAD51B protein, fused to His-tag at N-terminus, was expressed in *E. coli*.

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### Amino acid Sequence

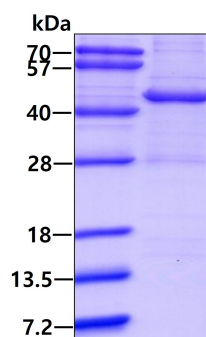
<MGSSHHHHHH SSGLVPRGSH MGS>MGSKKLK RVGLSQELCD RLSRHQILTC QDFLCLESPLE LMKVTGLSYR  
GVHELLCMVS RACAPKMQTA YGIKAQRSAD FSPAFLSTTL SALDEALHGG VACGSLTEIT GPPGCGKTQF CIMMSILATL  
PTNMGGLEGA VVYIDTESAF SAERLVEIAE SRFPRYFNTE EKLLLTSSKV HLYRELTCDE VLQRIESLEE EIISKGIKLV  
ILDSVASVVR KEFDAQLQGN LKERNKFLAR EASSLKYLAE EFSIPVILTQ QITTHLSGAL ASQADLVSPA DDLSLSEGTS  
GSSCVIAALG NTWSHSVNTN LILQYLDSEK RQILIAKSPL APFTSFVYTI KEEGLVLQAY GNS

### General References

Masson J.Y., Tarsounas M.C. et al. (2001). Genes Dev. 15:3296-3307

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.