

Recombinant Human RAD54L Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. RAD54L-5042H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	RAD54L MS Standard C13 and N15-labeled recombinant protein (NP_003570) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	The protein encoded by this gene belongs to the DEAD-like helicase superfamily, and shares similarity with <i>Saccharomyces cerevisiae</i> Rad54, a protein known to be involved in the homologous recombination and repair of DNA. This protein has been shown to play a role in homologous recombination related repair of DNA double-strand breaks. The binding of this protein to double-strand DNA induces a DNA topological change, which is thought to facilitate homologous DNA paring, and stimulate DNA recombination. Alternative splicing results in multiple transcript variants encoding the same protein.
Molecular Mass	84.4 kDa
AA Sequence	MRRSLAPSQLAKRKPEGRSCDDEDWQPGLVTPRKRKSSSETQIQECFLSPFRKPLS QLTNQPPCLDSSQHEAFIRSILSKPFKVPINYPYQGGLGSRALGLKRAGVRRALHDPLE KDALVLYEPPPLSAHDQLKLDKEKLPVHVVDPIILSKVLRPHQREGVKFLWECVTSR RIPGSHGCIMADEMGLGKTLQCITLMWTLRLRQSPECKPEIDKAVVSPSSLVKNWYN EVGKWLGGRIPQPLAIDGGSKDEIDQKLEGFMNQRGARVSSPILIISYETFRLHVGVLQ

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KGSVGLVICDEGHRLKNSNQTYQALDSLNTSRRVLISGTPIQNDLLEYFSLVHFNVS
 GILGTAHEFKKHFELPILKGRDAAASEADRQLGEERLRELTSIVNRCLIRRTSDILSKY
 LPVKIEQVVCCRLTPLQTELYKRFLRQAKPAEELLEGKMSVSSLSSITSLKKLCNHPA
 LIYDKCVEEEDGFVGALDLFPPGYSSKALEPQLSGKMLVLDYILAVTRSRSSDKVVLV
 SNYTQTLDLFEKLCRARRYLYVRDGTMSIKKRAKVVERFNSPSSPDFVFMLSSKAG
 GCGLNLIGANRLVMFDPDWNPANDEQAMARVWRDGQKKTCYIYRLLSAGTIEEKIF
 QRQSHKKALSSCVVDEEQDVERHFSLGELKELFILDEASLSDTHDRLHCRRCVNSR
 QIRPPPDGSDCTSDLAGWNHCTDKWGLRDEVLQAAWDAASTAITFVFHQRSHEEQ
 RGLRTRTRPLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name RAD54L RAD54 like [Homo sapiens (human)]

Official Symbol RAD54L

Synonyms RAD54L; RAD54-like (S. cerevisiae); RAD54 (S.cerevisiae) like; DNA repair and recombination protein RAD54-like; hHR54; hRAD54; RAD54A; RAD54 homolog; HR54;

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Gene ID	8438
mRNA Refseq	NM_003579
Protein Refseq	NP_003570
MIM	603615
UniProt ID	Q92698
SDS-PAGE	