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# Product datasheet for PH320046

## RAD54 (RAD54L) (NM_003579) Human Mass Spec Standard

### Product data:

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|---|---|
| **Product Type:** | Mass Spec Standards |
| **Description:** | RAD54L MS Standard C13 and N15-labeled recombinant protein (NP_003570) |
| **Species:** | Human |
| **Expression Host:** | HEK293 |
| **Expression cDNA Clone or AA Sequence:** | RC220046 |
| **Predicted MW:** | 84.4 kDa |
| **Protein Sequence:** | >RC220046 protein sequence<br>Red=Cloning site Green=Tags(s)<br><br>MRRSLAPSQLAKRKPEGRSCDDEDWQPGLVTPRKRKSSSETQIQECFLSPFRKPLSQLTNQPPCLDSSQH<br>EAFIRSILSKPFKVPIPNYQGPLGSRALGLKRAGVRRALHDPLEKDALVLYEPPPLSAHDQLKLDKEKLP<br>VHVVVDPILSKVLRPHQREGVKFLWECVTSRRIPGSHGCIMADEMGLGKTLQCITLMWTLLRQSPECKPE<br>IDKAVVVSPSSLVKNWYNEVGKWLGGRIQPLAIDGGSKDEIDQKLEGFMNQRGARVSSPILIISYETFRL<br>HVGVLQKGSVGLVICDEGHRLKNSENQTYQALDSLNTSRRVLISGTPIQNDLLEYFSLVHFVNSGILGTA<br>HEFKKHFELPILKGRDAAASEADRQLGEERLRELTSIVNRCLIRRTSDILSKYLPVKIEQVVCCRLTPLQ<br>TELYKRFLRQAKPAEELLEGKMSVSSLSSITSLKKLCNHPALIYDKCVEEEDGFVGALDLFPPGYSSKAL<br>EPQLSGKMLVLDYILAVTRSRSSDKVVLVSNYTQTLDLFEKLCRARRYLYVRLDGTMSIKKRAKVVERFN<br>SPSSPDFVFMLSSKAGGCGLNLIGANRLVMFDPDWNPANDEQAMARVWRDGQKKTCYIYRLLSAGTIEEK<br>IFQRQSHKKALSSCVVDEEQDVERHFSLGELKELFILDEASLSDTHDRLHCRRCVNSRQIRPPPDGSDCT<br>SDLAGWNHCTDKWGLRDEVLQAAWDAASTAITFVFHQRSHEEQRGLR<br><br>TRTRPLEQKLISEEDLAANDILDYKDDDDKV |
| **Tag:** | C-Myc/DDK |
| **Purity:** | > 80% as determined by SDS-PAGE and Coomassie blue staining |
| **Concentration:** | >0.05 µg/µL as determined by microplate BCA method |
| **Labeling Method:** | Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine |
| **Buffer:** | 25 mM Tris-HCl, 100 mM glycine, pH 7.3 |
| **Storage:** | Store at -80°C. Avoid repeated freeze-thaw cycles. |
| **Stability:** | Stable for 3 months from receipt of products under proper storage and handling conditions. |
| **RefSeq:** | NP_003570 |

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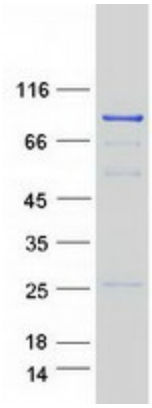
|---|---|
| **RefSeq Size:** | 3164 |
| **RefSeq ORF:** | 2241 |
| **Synonyms:** | hHR54; HR54; hRAD54; RAD54A |
| **Locus ID:** | 8438 |
| **UniProt ID:** | Q92698 |
| **Cytogenetics:** | 1p34.1 |
| **Summary:** | The protein encoded by this gene belongs to the DEAD-like helicase superfamily, and shares similarity with Saccharomyces cerevisiae 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.[provided by RefSeq, Dec 2008] |
| **Protein Families:** | Druggable Genome, Stem cell - Pluripotency |
| **Protein Pathways:** | Homologous recombination |

## Product images:




Coomassie blue staining of purified RAD54L protein (Cat# [TP320046]). The protein was produced from HEK293T cells transfected with RAD54L cDNA clone (Cat# [RC220046]) using MegaTran 2.0 (Cat# [TT210002]).