

Product datasheet for TP510443

OriGene Technologies, Inc.

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Rad54l (NM 001122958) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Purified recombinant protein of Mouse RAD54 like (S. cerevisiae) (Rad54l), with C-terminal Description:

MYC/DDK tag, expressed in HEK293T cells, 20ug

Species: Mouse **Expression Host:** HEK293T

Expression cDNA Clone

>MR210443 protein sequence or AA Sequence: Red=Cloning site Green=Tags(s)

> MRRSLAPSQLARRKPEDRSSDDEDWQPGTVTPKKRKSSSETQVQECFLSPFRKPLTQLLNRPPCLDSSQH EAFIRSILSKPFKVPIPNYQGPLGSRALGLKRVGVRRALHDPLEEGALVLYEPPPLSAHDQLKLDKEKLP VHVVVDPILSKVLRPHQREGVKFLWECVTSRRIPGSHGCIMADEMGLGKTLQCITLMWTLLRQSPECKPE IEKAVVVSPSSLVKNWYNEVEKWLGGRIQPLAIDGGSKDEIDRKLEGFMNQRGARVPSPILIISYETFRL HVGVLKKGNVGLVICDEGHRLKNSENQTYQALDSLNTSRRVLISGTPIQNDLLEYFSLVHFVNSGILGTA HEFKKHFELPILKSRDAAASEADRQRGEERLRELIGIVNRCLIRRTSDILSKYLPVKIEQVVCCRLTPLQ TELYKRFLRQAKPEEELREGKMSVSSLSSITSLKKLCNHPALIYDKCVAEEDGFEGTLGIFPPGYNSKAV EPQLSGKMLVLDYILAVTRSRSSDKVVLVSNYTQTLDLFEKLCRVRRYLYVRLDGTMSIKKRAKVVERFN SPSSPDFVFMLSSKAGGCGLNLIGANRLVMFDPDWNPANDEQAMARVWRDGQKKICYIYRLLSAGTIEEK IFQRQSHKKALSSCVVDEEQDVERHFSLGELKELFTLDEASLSDTHDRLHCRRCVNNRQVWPPPDGSDCT SDLAQWNHSTDKRGLQDEVLQAAWDASSTAITFVFHQRSHEEQRGLH

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

C-MYC/DDK Tag:

Predicted MW: 84.7 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

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

Buffer: 25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol

Note: For testing in cell culture applications, please filter before use. Note that you may experience

some loss of protein during the filtration process.

Store at -80°C after receiving vials. Storage:





Rad54l (NM_001122958) Mouse Recombinant Protein - TP510443

Stability: Stable for 12 months from the date of receipt of the product under proper storage and

handling conditions. Avoid repeated freeze-thaw cycles.

RefSeq: NP 001116430

 Locus ID:
 19366

 UniProt ID:
 P70270

 RefSeq Size:
 2763

 Cytogenetics:
 4 D1

 RefSeq ORF:
 2244

 Synonyms:
 RAD54

Summary: Involved in DNA repair and mitotic recombination. Functions in the recombinational DNA

repair (RAD52) pathway. Dissociates RAD51 from nucleoprotein filaments formed on dsDNA. Could be involved in the turnover of RAD51 protein-dsDNA filaments (By similarity). Deficient mice also show significantly shorter telomeres than wild-type controls, indicating that the protein activity plays an essential role in telomere length maintenance in mammals. Deficiency also resulted in an increased frequency of end-to-end chromosome fusions involving telomeres compared to the controls, suggesting a putative role in telomere capping. Non-homologous end joining (NHEJ) and homologous recombination (HR) represent the two major pathways of DNA double-strand break (DSB) repair in eukaryotic cells. LIG4 and RAD54L

cooperate to support cellular proliferation, repair spontaneous DSBs, and prevent chromosome and single chromatid aberrations.[UniProtKB/Swiss-Prot Function]