

## Recombinant Human RAD54B cell lysate

Cat. No. RAD54B-1460HCL    Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

|                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Species        | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Description    | The protein encoded by this gene belongs to the DEAD-like helicase superfamily. It shares similarity with <i>Saccharomyces cerevisiae</i> RAD54 and RDH54, both of which are involved in homologous recombination and repair of DNA. This protein binds to double-stranded DNA, and displays ATPase activity in the presence of DNA. This gene is highly expressed in testis and spleen, which suggests active roles in meiotic and mitotic recombination. Homozygous mutations of this gene were observed in primary lymphoma and colon cancer. |
| Size           | 100 ul                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Storage Buffer | 1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Applications   | Western Blot;                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

### GENE INFORMATION

|                 |                                                                                        |
|-----------------|----------------------------------------------------------------------------------------|
| Gene Name       | RAD54B RAD54 homolog B ( <i>S. cerevisiae</i> ) [ <i>Homo sapiens</i> ]                |
| Official Symbol | RAD54B                                                                                 |
| Synonyms        | RAD54B; RAD54 homolog B ( <i>S. cerevisiae</i> ); DNA repair and recombination protein |

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|                            |                                                                                                                              |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------|
|                            | RAD54B; RDH54;                                                                                                               |
| <b>Gene ID</b>             | 25788                                                                                                                        |
| <b>mRNA Refseq</b>         | NM_001205262                                                                                                                 |
| <b>Protein Refseq</b>      | NP_001192191                                                                                                                 |
| <b>MIM</b>                 | 604289                                                                                                                       |
| <b>UniProt ID</b>          | Q9Y620                                                                                                                       |
| <b>Chromosome Location</b> | 8q22.1                                                                                                                       |
| <b>Pathway</b>             | Homologous recombination, organism-specific biosystem; Homologous recombination, conserved biosystem;                        |
| <b>Function</b>            | ATP binding; DNA helicase activity; DNA translocase activity; RNA helicase activity; hydrolase activity; nucleotide binding; |

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