

Recombinant Human RAD51 293 Cell Lysate

Cat. No. RAD51-2556HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for RAD51 homolog (RecA homolog, E. coli) (S. cerevisiae) (RAD51), transcript variant 2 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Applications

ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

GENE INFORMATION
Gene Name

[RAD51](#) [RAD51 homolog \(S. cerevisiae\)](#) [[Homo sapiens](#)]

Official Symbol

[RAD51](#)

Synonyms

[RAD51](#); [RAD51 homolog \(S. cerevisiae\)](#); [RAD51 \(S. cerevisiae\) homolog \(E coli RecA homolog\)](#) , [RAD51 homolog \(RecA homolog, E. coli\) \(S. cerevisiae\)](#) , [RAD51A](#), [RECA](#); DNA repair protein [RAD51 homolog 1](#); [BRCA1/BRCA2 containing complex](#); subunit 5; [BRCC5](#); [HsRad51](#); [HsT16930](#); [RAD51 homolog A](#); [RecA-like protein](#); [recombination protein A](#); [RecA, E. coli, homolog of](#); [RAD51 homolog \(RecA homolog, E. coli\)](#); [BRCA1/BRCA2-containing complex, subunit 5](#); [RECA](#); [MRMV2](#); [HRAD51](#); [RAD51A](#);

Gene ID

[5888](#)

mRNA Refseq

[NM_001164269](#)

Protein Refseq

[NP_001157741](#)

MIM

[179617](#)

UniProt ID

[Q06609](#)

**Chromosome
Location**

[15q15.1](#)

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Pathway

Assembly of the RAD51-ssDNA nucleoprotein complex, organism-specific biosystem; BARD1 signaling events, organism-specific biosystem; DNA Repair, organism-specific biosystem; Double-Strand Break Repair, organism-specific biosystem; Fanconi anemia pathway, organism-specific biosystem; Fanconi anemia pathway, conserved biosystem; Homologous DNA pairing and strand exchange, organism-specific biosystem;

Function

ATP binding; ATP binding; DNA-dependent ATPase activity; damaged DNA binding; double-stranded DNA binding; double-stranded DNA binding; identical protein binding; nucleoside-triphosphatase activity; nucleotide binding; protein C-terminus binding; protein binding; single-stranded DNA binding; single-stranded DNA-dependent ATPase activity;