

Recombinant Human RAD51 293 Cell Lysate

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

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for RAD51 homolog (RecA homolog, E. coli) (<i>S. cerevisiae</i>) (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.
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

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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
Pathway	Assembly of the RAD51-ssDNA nucleoprotein complex, organism-specific biosystem ; BARD1 signaling events, organism-specific biosystem ; DNA Repair, organism-

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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;

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