

Recombinant Human RAD50 293 Cell Lysate

Cat. No. RAD50-2557HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for RAD50 homolog (<i>S. cerevisiae</i>) (RAD50), transcript variant 1 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.

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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 RAD50 RAD50 homolog (*S. cerevisiae*) [*Homo sapiens*]

Official Symbol RAD50

Synonyms RAD50; RAD50 homolog (*S. cerevisiae*); RAD50 (*S. cerevisiae*) homolog; DNA repair protein RAD50; hRad50; RAD50 2; NBSLD; RAD502;

Gene ID 10111

mRNA Refseq NM_005732

Protein Refseq NP_005723

MIM 604040

UniProt ID Q92878

Chromosome Location 5q23-q31

Pathway Assembly of the RAD50-MRE11-NBS1 complex at DNA double-strand breaks, organism-specific biosystem; BARD1 signaling events, organism-specific biosystem; BRCA1-associated genome surveillance complex (BASC), organism-specific biosystem; DNA Repair, organism-specific biosystem; Double-Strand Break Repair, organism-specific biosystem; Homologous Recombination Repair, organism-specific

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biosystem; Homologous recombination, organism-specific biosystem;

Function

contributes_to 3-5 exonuclease activity; ATP binding; contributes_to ATP-dependent DNA helicase activity; DNA binding; hydrolase activity; metal ion binding; nuclease activity; nucleotide binding; protein binding; protein binding, bridging; contributes_to single-stranded DNA specific endodeoxyribonuclease activity; zinc ion binding;

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