

Recombinant Human RAD50 293 Cell Lysate

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

SPECIFICATION

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.
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	RAD50 RAD50 homolog (<i>S. cerevisiae</i>) [<i>Homo sapiens</i>]
Official Symbol	RAD50
Synonyms	RAD50; RAD50 homolog (<i>S. cerevisiae</i>); RAD50 (<i>S. cerevisiae</i>) 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 biosystem; Homologous recombination, organism-specific biosystem;

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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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