

Recombinant Human RAD1 293 Cell Lysate

Cat. No. RAD1-2564HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for RAD1 homolog (<i>S. pombe</i>) (RAD1), 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

[RAD1](#) [RAD1 homolog \(S. pombe\)](#) [[Homo sapiens](#)]

Official Symbol

[RAD1](#)

Synonyms

[RAD1](#); [RAD1 homolog \(S. pombe\)](#); [RAD1 \(S. pombe\) homolog](#); cell cycle checkpoint protein [RAD1](#); cell cycle checkpoint protein [Hrad1](#); checkpoint control protein [HRAD1](#); DNA repair exonuclease [REC1](#); exonuclease homolog [RAD1](#); [HRAD1](#); Rad1 like DNA damage checkpoint; [REC1](#); DNA repair exonuclease [rad1 homolog](#); [rad1-like](#) DNA damage checkpoint protein;

Gene ID

[5810](#)

mRNA Refseq

[NM_002853](#)

Protein Refseq

[NP_002844](#)

MIM

[603153](#)

UniProt ID

[O60671](#)

Chromosome Location

5p13

Pathway

Activation of ATR in response to replication stress, organism-specific biosystem; Cell Cycle, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific

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biosystem; G2/M Checkpoints, organism-specific biosystem; Regulation of
Telomerase, organism-specific biosystem;

Function

3-5 exonuclease activity; damaged DNA binding; exodeoxyribonuclease III activity;
hydrolase activity; protein binding;

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