

Recombinant Human ERCC1 293 Cell Lysate

Cat. No. ERCC1-6567HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence) (ERCC1), 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

ERCC1 excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence) [Homo sapiens]

Official Symbol

ERCC1

Synonyms

ERCC1; excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence); DNA excision repair protein ERCC-1; RAD10; UV20; COFS4;

Gene ID

2067

mRNA Refseq

NM_202001

Protein Refseq

NP_973730

MIM

126380

UniProt ID

P07992

Chromosome Location

19q13.32

Pathway

DNA Repair, organism-specific biosystem; Dual incision reaction in GG-NER, organism-specific biosystem; Dual incision reaction in TC-NER, organism-specific

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biosystem; Fanconi anemia pathway, organism-specific biosystem; Fanconi anemia pathway, conserved biosystem; Formation of incision complex in GG-NER, organism-specific biosystem; Formation of transcription-coupled NER (TC-NER) repair complex, organism-specific biosystem;

Function

damaged DNA binding; damaged DNA binding; endonuclease activity; hydrolase activity; protein C-terminus binding; protein binding; protein domain specific binding; single-stranded DNA binding; contributes_to single-stranded DNA specific endodeoxyribonuclease activity; contributes_to structure-specific DNA binding;

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