Recombinant Human ERCC1 293 Cell Lysate

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

SPECIFICATION

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.
Applications	ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	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 biosystem; Fanconi anemia pathway, organism-specific biosystem; Fanconi anemia

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	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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