

## Recombinant Human ERCC1 293 Cell Lysate

Cat. No. ERCC1-6568HCL Lot. No. (See product label)

### SPECIFICATION

|                            |  |
|----------------------------|--|
| <b>Species</b>             | Human  |
| <b>Source</b>              | HEK293   |
| <b>Description</b>         | Antigen standard for excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence) (ERCC1), transcript variant 2 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. |
| <b>Components</b>          | 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).            |
| <b>Size</b>                | 0.1 mg   |
| <b>Storage Instruction</b> | 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.  |
| <b>Applications</b>        | ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil  |

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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

|                            |  |
|----------------------------|--|
| <b>Gene Name</b>           | ERCC1 excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence) [ Homo sapiens ]   |
| <b>Official Symbol</b>     | ERCC1  |
| <b>Synonyms</b>            | ERCC1; excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence); DNA excision repair protein ERCC-1; RAD10; UV20; COFS4;  |
| <b>Gene ID</b>             | 2067   |
| <b>mRNA Refseq</b>         | NM_001983  |
| <b>Protein Refseq</b>      | NP_001974  |
| <b>MIM</b>                 | 126380   |
| <b>UniProt ID</b>          | P07992   |
| <b>Chromosome Location</b> | 19q13.32   |
| <b>Pathway</b>             | 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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