

Human ERCC1 Knockdown Cell Lysate

Cat. No. ERCC1-160HKCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WB-validated ERCC1 Knockdown HeLa Cell Lysate
Species	Human
Source	HeLa
Description	The product of this gene functions in the nucleotide excision repair pathway, and is required for the repair of DNA lesions such as those induced by UV light or formed by electrophilic compounds including cisplatin. The encoded protein forms a heterodimer with the XPF endonuclease (also known as ERCC4), and the heterodimeric endonuclease catalyzes the 5' incision in the process of excising the DNA lesion. The heterodimeric endonuclease is also involved in recombinational DNA repair and in the repair of inter-strand crosslinks. Mutations in this gene result in cerebrooculofacioskeletal syndrome, and polymorphisms that alter expression of this gene may play a role in carcinogenesis. Multiple transcript variants encoding different isoforms have been found for this gene. The last exon of this gene overlaps with the CD3e molecule, epsilon associated protein gene on the opposite strand.
Form	Cell-Tissue Lysis buffer
Molecular Mass	33 kDa
Notes	Instruction of use: This knockdown cell lysate should be paired with wild-type HeLa cell lysate for use. For Western blotting, we recommend running wild-type and knockdown lysates on the same gel, and loading each well with equal volume and

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	equal amount of total proteins.
Storage	Store at -20 centigrade for two years.
Concentration	Lot-specific
Shipping	Blue Ice
Components	1 vial of 100 µg WT HeLa cell lysate 1 vial of 100 µg ERCC1 KD HeLa cell lysate
Protein Families	Druggable Genome
Protein Pathways	Nucleotide excision repair
Lysate QC	RT-qPCR; Western Blotting (WB)

GENE INFORMATION

Gene Name	ERCC1 excision repair cross-complementing rodent repair deficiency, complementation group 1 (includes overlapping antisense sequence) [Homo sapiens (human)]
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_001166049

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Protein Refseq	NP_001159521
MIM	126380
UniProt ID	P07992

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