

Recombinant Human ERCC2 293 Cell Lysate

Cat. No. ERCC2-6566HCL **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 2 (ERCC2), 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 [ERCC2 excision repair cross-complementing rodent repair deficiency, complementation group 2 \[Homo sapiens \]](#)

Official Symbol ERCC2

Synonyms ERCC2; excision repair cross-complementing rodent repair deficiency, complementation group 2; xeroderma pigmentosum complementary group D , XPD; TFIIH basal transcription factor complex helicase XPD subunit; EM9; excision repair cross complementing rodent repair deficiency; complementation group 2 protein; MAG; MGC102762; MGC126218; MGC126219; CXPB; BTF2 p80; TFIIH p80; TFIIH 80 kDa subunit; DNA excision repair protein ERCC-2; DNA repair protein complementing XP-D cells; basic transcription factor 2 80 kDa subunit; xeroderma pigmentosum complementary group D; xeroderma pigmentosum group D-complementing protein; TFIIH basal transcription factor complex 80 kDa subunit; TFIIH basal transcription factor complex helicase subunit; TTD; XPD; COFS2;

Gene ID [2068](#)

mRNA Refseq [NM_000400](#)

Protein Refseq [NP_000391](#)

MIM [126340](#)

UniProt ID [P18074](#)

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Chromosome Location	19q13.3
Pathway	Basal transcription factors, organism-specific biosystem; Basal transcription factors, conserved biosystem; DNA Repair, organism-specific biosystem; Disease, organism-specific biosystem; Dual incision reaction in GG-NER, organism-specific biosystem; Dual incision reaction in TC-NER, organism-specific biosystem; Eukaryotic Transcription Initiation, organism-specific biosystem;
Function	5-3 DNA helicase activity; ATP binding; ATP-dependent DNA helicase activity; DNA binding; contributes_to DNA-dependent ATPase activity; DNA-dependent ATPase activity; contributes_to RNA polymerase II carboxy-terminal domain kinase activity; helicase activity; hydrolase activity, acting on acid anhydrides, in phosphorus-containing anhydrides; iron-sulfur cluster binding; metal ion binding; nucleotide binding; protein C-terminus binding; protein N-terminus binding; protein binding; contributes_to protein kinase activity;