Recombinant Human ERCC2 293 Cell Lysate

Cat. No. ERCC2-6566HCL **Lot. No.** (See product label)

SPECIFICATION

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.
Applications	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

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; CXPD; 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;

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