Recombinant Human ERCC3 293 Cell Lysate

Cat. No. ERCC3-6565HCL **Lot. No.** (See product label)

SPECIFICATION

Species	Human
Source	HEK293
Description	Antigen standard for excision repair cross-complementing rodent repair deficiency, complementation group 3 (xeroderma pigmentosum group B complementing) (ERCC3) 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	ERCC3 excision repair cross-complementing rodent repair deficiency, complementation group 3 [Homo sapiens]
Official Symbol	ERCC3
Synonyms	ERCC3; excision repair cross-complementing rodent repair deficiency, complementation group 3; TFIIH basal transcription factor complex helicase XPB subunit; BTF2; GTF2H; RAD25; TFIIH; xeroderma pigmentosum group B complementing; XPB; BTF2 p89; TFIIH p89; TFIIH 89 kDa subunit; DNA excision repair protein ERCC-3; DNA repair protein complementing XP-B cells; basic transcription factor 2 89 kDa subunit; xeroderma pigmentosum, complementation group B; xeroderma pigmentosum group B-complementing protein; TFIIH basal transcription factor complex 89 kDa subunit;
Gene ID	2071
mRNA Refseq	NM_000122
Protein Refseq	NP_000113
MIM	133510
UniProt ID	P19447
Chromosome Location	2q21

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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	3-5 DNA helicase activity; 3-5 DNA helicase activity; ATP binding; ATP-dependent DNA helicase activity; ATPase activity; DNA binding; contributes_to DNA-dependent ATPase activity; contributes_to DNA-dependent ATPase activity; GTP binding; contributes_to RNA polymerase II carboxy-terminal domain kinase activity; dATP binding; damaged DNA binding; helicase activity; hydrolase activity; nucleotide binding; peptide binding; protein C-terminus binding; protein N-terminus binding; protein binding; contributes_to protein kinase activity; transcription factor binding;

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