Recombinant Human XRCC5 & XRCC6 cell lysate

Cat. No. XRCC5 & XRCC6-543HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human XRCC5 & XRCC6 Heterodimer derived in Baculovirus-Insect cells. The whole cell lysate is provided in 1X Sample Buffer.Browse all transfected cell lysate positive controls
Species	Human
Source	Insect Cells
Preparation method	Transfected cells were cultured for 48hrs before collection. The cells were lysed in modified RIPA buffer with cocktail of protease inhibitors. Cell debris was removed by centrifugation and then centrifuged to clarify the lysate. The cell lysate was boiled for 5 minutes in 1 x SDS sample buffer (50 mM Tris-HCl pH 6.8, 12.5% glycerol, 1% sodium dodecylsulfate, 0.01% bromophenol blue) containing 5% b-mercaptoethanol, and lyophilized.
Lysis buffer	Modified RIPA Lysis Buffer: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Quality control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Recommended Usage	1. Centrifuge the tube for a few seconds and ensure the pellet at the bottom of the tube.2. Re-dissolve the pellet using 200μL pure water and boiled for 2-5 min.3. Store it at -80°C. Recommend to aliquot the cell lysate into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.Notes:The lysate is ready to load on

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

	SDS-PAGE for Western blot application. If dissociating conditions are required, add reducing agent prior to heating.
Stability	Samples are stable for up to twelve months from date of receipt at -80°C
Storage Buffer	50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1mM EDTA, 1% Triton X-100, 0.1% SDS, 1% Sodium deoxycholate, 1mM PMSF
Storage Instruction	Lysate samples are stable for 12 months from date of receipt when stored at -80°C. Avoid repeated freeze-thaw cycles. Prior to SDS-PAGE fractionation, boil the lysate for 5 minutes.

GENE INFORMATION

Gene Name	XRCC5 X-ray repair complementing defective repair in Chinese hamster cells 5 (double-strand-break rejoining) [Homo sapiens]; XRCC6 X-ray repair complementing defective repair in Chinese hamster cells 6 [Homo sapiens]
Official Symbol	XRCC5; XRCC6
Synonyms	KU80; KUB2; Ku86; NFIV; KARP1; KARP-1; X-ray repair cross-complementing protein 5; TLAA; CTC85; CTCBF; nuclear factor IV; Ku autoantigen, 80kDa; DNA repair protein XRCC5; thyroid-lupus autoantigen; 86 kDa subunit of Ku antigen; lupus Ku autoantigen protein p86; Ku86 autoantigen related protein 1; CTC box-binding factor 85 kDa subunit; ATP-dependent DNA helicase 2 subunit 2; ATP-dependent DNA helicase II 80 kDa subunit; ML8; KU70; TLAA; CTC75; CTCBF; G22P1; X-ray repair cross-complementing protein 6; 5'-dRP lyase Ku70Ku autoantigen, 70kDa; DNA repair protein XRCC6; Ku autoantigen p70 subunit; 70 kDa subunit of Ku antigen; thyroid-lupus autoantigen p70; lupus Ku autoantigen protein p70; 5'-deoxyribose-5-phosphate lyase Ku70; CTC box binding factor 75 kDa subunit; CTC

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	box-binding factor 75 kDa subunit; thyroid autoantigen 70kD (Ku antigen); ATP-dependent DNA helicase 2 subunit 1; thyroid autoantigen 70kDa (Ku antigen); ATP-dependent DNA helicase II 70 kDa subunit; ATP-dependent DNA helicase II, 70 kDa subunit
Gene ID	7520; 2547
mRNA Refseq	NM_021141; NM_001288976
Protein Refseq	NP_066964; NP_001275905
MIM	194364; 152690
UniProt ID	P13010; P12956
Chromosome Location	2q35; 22q13.2
Pathway	2-LTR circle formation, organism-specific biosystem; DNA-PK complex, conserved biosystem; Immune System, organism-specific biosystem; 2-LTR circle formation, organism-specific biosystem; Disease, organism-specific biosystem
Function	contributes_to 5'-deoxyribose-5-phosphate lyase activity; contributes_to double-stranded telomeric DNA binding; double-stranded DNA binding; 5'-deoxyribose-5-phosphate lyase activity; contributes_to double-stranded telomeric DNA binding

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