

Recombinant Human XRCC6, His-tagged

Cat. No. XRCC6-29198TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 334-609 of Human Ku70 with N terminal His tag; 276 amino acids, 36kDa.
Species	Human
Source	E.coli
ProteinLength	334-609 a.a.
Description	The p70/p80 autoantigen is a nuclear complex consisting of two subunits with molecular masses of approximately 70 and 80 kDa. The complex functions as a single-stranded DNA-dependent ATP-dependent helicase. The complex may be involved in the repair of nonhomologous DNA ends such as that required for double-strand break repair, transposition, and V(D)J recombination. High levels of autoantibodies to p70 and p80 have been found in some patients with systemic lupus erythematosus.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 69 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.

 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

Sequences of amino acids

TEELKRFDDPGLMLMGFKPLVLLKKHHYLRPSLFVYPEES LVIGSSTLFSALLIKCLE
 KEVAALCRYTPRRNIPPYFV ALVPQEEELDDQKIQTTPPGFQLVFLPFADDKRKMPF
 TEK IMATPEQVGKMKAIVEKLRFTYRSDSFENPVLQQHFRN LEALALDLMEPEQAV
 DLTLPKVEAMNKRLGSLVDEFKE LVYPPDYNPEGKVTKRKHDNEGSGSKRPKVEY
 SEEELKTH ISKGTLGKFTVPMLEACRAYGLKSGGLKKQELLEALTK HFQD

Sequence Similarities

Belongs to the ku70 family.Contains 1 Ku domain.Contains 1 SAP domain.

GENE INFORMATION

Gene Name XRCC6 X-ray repair complementing defective repair in Chinese hamster cells 6 [[Homo sapiens](#)]

Official Symbol [XRCC6](#)

Synonyms XRCC6; X-ray repair complementing defective repair in Chinese hamster cells 6; G22P1, thyroid autoantigen 70kD (Ku antigen) , thyroid autoantigen 70kDa (Ku antigen); X-ray repair cross-complementing protein 6; D22S671; D22S731; Ku autoantigen; 70kDa; KU

Gene ID [2547](#)

mRNA Refseq [NM_001469](#)

Protein Refseq [NP_001460](#)

MIM [152690](#)

Uniprot ID [P12956](#)

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Chromosome Location	22q13.2
Pathway	2-LTR circle formation, organism-specific biosystem; BARD1 signaling events, organism-specific biosystem; Coregulation of Androgen receptor activity, organism-specific biosystem; DNA Repair, organism-specific biosystem; DNA-PK complex, organism-specific biosystem;
Function	5-deoxyribose-5-phosphate lyase activity; ATP binding; ATP-dependent DNA helicase activity; DNA binding; double-stranded DNA binding;

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