

Recombinant Mouse Xrcc2 Protein, Myc/DDK-tagged

Cat. No. Xrcc2-7023M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of Mouse X-ray repair complementing defective repair in Chinese hamster cells 2 (Xrcc2), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA, thought to repair chromosomal fragmentation, translocations and deletions. Part of the Rad21 paralog protein complex BCDX2 which acts in the BRCA1-BRCA2-dependent HR pathway. Upon DNA damage, BCDX2 acts downstream of BRCA2 recruitment and upstream of RAD51 recruitment. BCDX2 binds predominantly to the intersection of the four duplex arms of the Holliday junction and to junction of replication forks. The BCDX2 complex was originally reported to bind single-stranded DNA, single-stranded gaps in duplex DNA and specifically to nicks in duplex DNA.
Molecular Mass	31.4 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

 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

Concentration >50 µg/mL as determined by microplate BCA method

Storage Buffer 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name *Xrcc2* X-ray repair complementing defective repair in Chinese hamster cells 2 [*Mus musculus* (house mouse)]

Official Symbol *Xrcc2*

Synonyms XRCC2; X-ray repair complementing defective repair in Chinese hamster cells 2; DNA repair protein XRCC2; recA/RAD51 family protein; X-ray repair cross-complementing protein 2; RecA; RAD51; 4921524O04Rik; 8030409M04Rik

Gene ID 57434

mRNA Refseq NM_020570

Protein Refseq NP_065595

UniProt ID Q9CX47

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