



# Recombinant Mouse DNA repair protein XRCC1 (Xrcc1)

<b>Product Code</b>	CSB-EP726654MO-B
<b>Abbreviation</b>	Xrcc1
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q60596
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Mus musculus (Mouse)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MPEISLRHVV SCSSQDSTHC AENLLKADTY R KWRAAKAGE KTISVVLQLE KEEQIHSVDI GNDGSAFVEV LVGSSAGGAT AGEQDYEVLL VTSSFMSPSE SRSGSNPNRV RIFGPKLVR AAAEKRWDRV KIVCSQPYSK DSPYGLSFVK FHSPDKDEA EATSQKVTVT KLGQFRVKEE DDSANSLKPG ALFFSRINKT SSASTSDPAG PSYAAATLQA SSAASSASPV PKVVGSSSKP QEPPKGKRKL DLSLEDRKPP SKPSAGPSTL KRPKLSVPSR TPAAAPASTP AQRVPGKPR GEGTEPRGAR TGPQELGKIL QGVVVVLSGF QNPFRSELRD KALELGAKYR PDWTPDSTHL ICAFANTPKY SQVLGLGGRI VRKEWVLDCH HMRRRLPSRR YLMAGLGSSS EDEGDHSES GEDEAPKLPQ KRPQPKAKTQ AAGPSSPPRP PTPKETKAPS PGPQDNSDTE GEESEGRDNG AEDSGDTEDE LRRVAKQREQ RQPPAPEENG EDPYAGSTDE NTDSETPSEA DLPIPELPDF FEGKHFFLYG EFPGDERRRL IRYVTA FNGE LEDYMNERVQ FVITAEWDP NFEEALMENP SLAFVRPRWI YSCNEKQKLL PHQLYGVVPQ A
<b>Source</b>	E.coli
<b>Target Names</b>	Xrcc1
<b>Protein Names</b>	Recommended name: DNA repair protein XRCC1 Alternative name(s): X-ray repair cross-complementing protein 1
<b>Expression Region</b>	1-631
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	This protein is involved in the efficient repair of DNA single-strand breaks formed by exposure to ionizing radiation and alkylating agents. This protein interacts with DNA ligase III, polymerase beta and poly (ADP-ribose) polymerase to participate in the base excision repair pathway. It may play a role in DNA processing during meiosis and recombination in germ cells. A rare



microsatellite polymorphism in this gene is associated with cancer in patients of varying radiosensitivity.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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