



Recombinant Rat DNA repair protein XRCC1 (Xrcc1)

Product Code	CSB-EP884162RA-B
Abbreviation	Xrcc1
Storage	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.
Uniprot No.	Q9ESZ0
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	≥85% (SDS-PAGE)
Sequence	MPEISLRHVV SCSSQDSTHR AENLLKADTY RKWRSKAGE KTISVVLQLE KEEQIHSVDI GNDGSFVEV LVGSSAGGAT AGEQDYEVLL VTSSFMSPSE SRSGSNPNRV RIFGPKLVR AAAEKRWDRV KIVCSQPYSK DSPYGLSFVK FHSPDKDEA EAPSQKVTVT KLGQFRVKEE DDSANSLRPG ALFFNRINKA ASASASPAG PSYAAATLQA SSAASSASPV PKVGGSSSKL QEPPKGRKRL DLGLEDKKPP SKPSAGPPAP KRPKLPVPSR TPAATPASTP AQKAVPGKPR GEGTEPRGAR AGPQELGKIL QGVVVVLSGF QNPFRSELRD KALELGAKYR PDWTPDSTHL ICAFANTPKY SQVLGLGGRI VRKEWVLDY RMRRLPSRR YLMAGLGSSS EDEGDSHSES GEDEAPKLPR KRPQPKAKTQ AAGPSSPPRP PTPEETKAPS PGPQDNSDTD GEQSEGRDNG AEDSGDTEDE LRRVAKQREQ RQPPAPEENG EDPYAGSTDE NTDSEAPSEA DLPIPELPDF FQGHFFLYG EFPGDERRKL IRYVTAFNGE LEDYMSDRVQ FVITAEWDP NFEEALMENP SLAFVRPRWI YSCNEKQKLL PHQLYGVVPQ A
Source	E.coli
Target Names	Xrcc1
Protein Names	Recommended name: DNA repair protein XRCC1 Alternative name(s): X-ray repair cross-complementing protein 1
Expression Region	1-631
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	Tag type will be determined during the manufacturing process.
Protein Length	full length protein
Target Details	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.

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.

Shelf Life

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