



Recombinant Human DNA repair protein RAD51 homolog 3 (RAD51C)

Product Code	CSB-EP019266HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O43502
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MRGKTFRFEM QRDLSVSFPLS PAVRVKLVSA GFQTAEELLE VKPSELSKEV GISKAEALLET LQIIRRECLT NKPRYAGTSE SHKKCTALEL LEQEHTQGFI ITFCSALDDI LGGGVPLMKT TEICGAPGVG KTQLCMQLAV DVQIPECFGG VAGEAVFIDT EGSFMVDRVV DLATACIQHL QLIAEKHKGE EHRKALEDFT LDNILSHIYY FRCRDYTELL AQVYLLPDFL SEHSKVRLVI VDGIAFPFRH DLDDLRLRTR LLNGLAQQMI SLANNHRLAV ILTNQMTTKI DRNQALLVPA LGESWGHAAT IRLIFHWDRK QRLATLYKSP SQKECTVLFQ IKPQGFRDTV VTSACSLQTE GSLSTRKRSR DPEEEL
Source	E.coli
Target Names	RAD51C
Protein Names	Recommended name: DNA repair protein RAD51 homolog 3 Short name= R51H3 Alternative name(s): RAD51 homolog C RAD51-like protein 2
Expression Region	1-376
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 gene is a member of the RAD51 family of related genes, which encode strand-transfer proteins thought to be involved in recombinational repair of damaged DNA and in meiotic recombination. This gene product interacts with two other DNA repair proteins, encoded by RAD51B and XRCC3, but not with itself. The protein copurifies with XRCC3 protein in a complex, reflecting their endogenous association and suggesting a cooperative role during recombinational repair. This gene is one of four localized to a region of chromosome 17q23 where amplification occurs frequently in breast tumors. Overexpression of the four genes during amplification has been observed and suggests a possible role in tumor progression. Alternative splicing has been observed for this gene and two variants encoding different isoforms have been identified.
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

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.