



# Recombinant Human DNA repair protein RAD51 homolog 2 (RAD51B)

<b>Product Code</b>	CSB-EP019267HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	O15315
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	MGSKKLKRVG LSQELCDRLS RHQILTCQDF LCLSPLELMK VTGLSYRGMVH ELLCMVSRAC APKMQTAYGI KAQRSADFSP AFLSTTLSAL DEALHGGVAC GSLTEITGPP GCGKTQFCIM MSILATLPTN MGGLEGAVVY IDTESAFSAE RLVEIAESRF PRYFNTEEKL LLTSSKVHLY RELTCDEVLQ RIESLEEEII SKGIKLVILD SVASVVRKEF DAQLQGNLKE RNKFLAREAS SLKYLAEEFS IPVILTQIT THLSGALASQ ADLVSPADDL SLSEGTSGSS CVIAALGNTW SHSVNTRLIL QYLDSEERRQI LIAKSPLAPF TSFVYTIKEE GLVLQETTFC SVTQAELNWA PEILPPQPPE QLGLQMCHHT QLIF
<b>Source</b>	E.coli
<b>Target Names</b>	RAD51B
<b>Protein Names</b>	Recommended name: DNA repair protein RAD51 homolog 2 Short name= R51H2 Alternative name(s): RAD51 homolog B Short name= Rad51B RAD51- like protein 1
<b>Expression Region</b>	1-384
<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 a member of the RAD51 protein family. RAD51 family members are evolutionarily conserved proteins essential for DNA repair by homologous recombination. This protein has been shown to form a stable heterodimer with the family member RAD51C, which further interacts with the other family members, such as RAD51, XRCC2, and XRCC3. Overexpression of this gene was found to cause cell cycle G1 delay and cell apoptosis, which suggested a role of this protein in sensing DNA damage. At least three alternatively spliced transcript variants encoding distinct isoforms have been observed.
<b>Reconstitution</b>	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.