



Recombinant Mouse DNA repair protein RAD51 homolog 2 (Rad51b)

Product Code	CSB-EP019267MO
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O35719
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	>85% (SDS-PAGE)
Sequence	MSSKKLRRVG LSPCLDRLS RYQIVNCQHF LSLSPLELMK VTGLSYRQVH ELLHTVSKAC APQMQTAYEL KTRRSAHLSP AFLSTTLCAL DEALHGGVPC GSLTEITGPP GCGKTQFCIM MSVLATLPTS LGGLEGAVVY IDTESAFTAE RLVEIAESRF PQYFNTEEKLLTSSRVHLC RELTCEGLLQ RLESLEEEII SKGVKLVIVD SIASVVRKEF DPKLQGNIKE RNKFLGKGAS LLKYLAGEFS IPVILTQIT THLSGALPSQ ADLVSPADDL SLSEGTSGSS CLVAALGNTW GHCVNTRLIL QYLDSEERRQI LIAKSPLAAF TSFVYTIKGE GLVLQGHERP
Source	E.coli
Target Names	Rad51b
Protein Names	Recommended name: DNA repair protein RAD51 homolog 2 Short name= R51H2 Alternative name(s): RAD51 homolog B RAD51-like protein 1
Expression Region	1-350
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 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.
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.