Recombinant Human Cell cycle checkpoint protein RAD17 (RAD17)

Product Code	CSB-YP019253HU
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Uniprot No.	O75943
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥85% (SDS-PAGE)
Sequence	MSKTFLRPKV SSTKVTDWVD PSFDDFLECS GVSTITATSL GVNNSSHRRK NGPSTLESSR FPARKRGNLS SLEQIYGLEN SKEYLSENEP WVDKYKPETQ HELAVHKKKI EEVETWLKAQ VLERQPKQGG SILLITGPPG CGKTTTLKIL SKEHGIQVQE WINPVLPDFQ KDDFKGMFNT ESSFHMFPYQ SQIAVFKEFL LRATKYNKLQ MLGDDLRTDK KIILVEDLPN QFYRDSHTLH EVLRKYVRIG RCPLIFIISD SLSGDNNQRL LFPKEIQEEC SISNISFNPV APTIMMKFLN RIVTIEANKN GGKITVPDKT SLELLCQGCS GDIRSAINSL QFSSSKGENN LRPRKKGMSL KSDAVLSKSK RRKKPDRVFE NQEVQAIGGK DVSLFLFRAL GKILYCKRAS LTELDSPRLP SHLSEYERDT LLVEPEEVVE MSHMPGDLFN LYLHQNYIDF FMEIDDIVRA SEFLSFADIL SGDWNTRSLL REYSTSIATR GVMHSNKARG YAHCQGGGSS FRPLHKPQWF LINKKYRENC LAAKALFPDF CLPALCLQTQ LLPYLALLTI PMRNQAQISF IQDIGRLPLK RHFGRLKMEA LTDREHGMID PDSGDEAQLN GGHSAEESLG EPTQATVPET WSLPLSQNSA SELPASQPQP FSAQGDMEEN IIIEDYESDG T
Source	Yeast
Target Names	RAD17
Protein Names	Recommended name: Cell cycle checkpoint protein RAD17 Short name= hRad17 Alternative name(s): RF-C/activator 1 homolog
Expression Region	1-681
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 highly similar to the gene product of Schizosaccharomyces pombe rad17, a cell cycle checkpoint gene required for cell cycle arrest and DNA damage repair in response to DNA damage. This protein shares strong similarity with DNA replication factor C (RFC), and can form a complex with RFCs. This protein binds to chromatin prior to DNA damage and is phosphorylated by the checkpoint kinase ATR following damage. This protein recruits the RAD1-RAD9-HUS1 checkpoint protein complex onto chromatin after DNA damage, which may be required for its phosphorylation. The phosphorylation of this protein is required for the DNA-damage-induced cell

	cycle G2 arrest, and is thought to be a critical early event during checkpoint signaling in DNA-damaged cells. Eight alternatively spliced transcript variants of this gene, which encode four distinct proteins, have been reported. Two pseudogenes, located on chromosomes 7 and 13, 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.