

Recombinant Human RAD17 Protein, His-tagged

Cat. No. RAD17-2153H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RAD17(431-681aa) fused with His tag was produced in E. coli.
Species	Human
Source	E.coli
ProteinLength	431-681aa
Description	The protein encoded by this gene is highly similar to the gene product of <i>Schizosaccharomyces pombe rad17</i>, 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. Multiple alternatively spliced transcript variants of this gene, which encode four distinct protein isoforms, have been reported. Two pseudogenes, located on chromosomes 7 and 13, have been identified.
Form	The purified protein was resolved in 1M PBS (58mM Na ₂ HPO ₄ , 17mM NaH ₂ PO ₄ , 68mM NaCl, pH7.) added with 300mM Imidazole and 15% glycerol.

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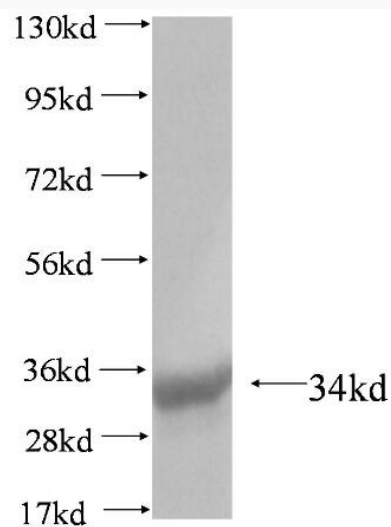
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AA sequence	SHMPGDLFNLYLHQNYIDFFMEIDDIVRASEFLSFADILSGDWNTRSLREYSTSIATR GVMHSNKARGYAHCQGGGSSFRPLHKPQWFLINKKYRENCCLAAKALFPDFCLPAL CRQTQLLPYLALLTIPMRNQAQISFIQDIGRLPLKRHFGRLLKMEALTDREHGMDPDS GDEAQLNGGHSAAESLGPTQATVPETWSLPLSQNSASELPASQPQPFSAQGDME ENIIIEDYESDGT
Storage	Aliquot and store at -20 centigrade to -80 centigrade for up to 6 months. Avoid freeze thaw cycles.
Shipping	The product is shipped with ice packs. Upon receipt, store it immediately at -20 centigrade to -80 centigrade.
GENE INFORMATION	
Gene Name	RAD17 RAD17 homolog (S. pombe) [Homo sapiens]
Official Symbol	RAD17
Synonyms	RAD17; RAD17 homolog (S. pombe); RAD1 (S. pombe) homolog; cell cycle checkpoint protein RAD17; CCYC; RAD17Sp; Rad24; RAD1 homolog; Rad17-like protein; RF-C activator 1 homolog; RF-C/activator 1 homolog; cell cycle checkpoint protein (RAD17); R24L; RAD24; HRAD17; RAD17SP; FLJ41520;
Gene ID	5884
mRNA Refseq	NM_002873
Protein Refseq	NP_002864
MIM	603139

UniProt ID

O75943

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