

Recombinant Human RAD1, His-tagged

Cat. No. RAD1-31287TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human Rad1 with N terminal His tag; 302 amino acids, MWt 33.9kDa.
Species	Human
Source	E.coli
ProteinLength	282 amino acids
Description	This gene encodes a component of a heterotrimeric cell cycle checkpoint complex, known as the 9-1-1 complex, that is activated to stop cell cycle progression in response to DNA damage or incomplete DNA replication. The 9-1-1 complex is recruited by RAD17 to affected sites where it may attract specialized DNA polymerases and other DNA repair effectors. Alternatively spliced transcript variants of this gene have been described.
Conjugation	HIS
Molecular Weight	33.900kDa inclusive of tags
Tissue specificity	Expressed in testis, uterus, bladder, spleen, ovaries, lung, brain and muscle (at protein level).
Form	Liquid

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Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 10% Glycerol, 0.2M Sodium chloride, 20mM Tris HCl, 1mM DTT, pH 8.0
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHHSSGLVPRGSHMPLLTQQIQDEDDQYSLVASLDNVRNLSTILKAIHFR EHATCFATKNGIKVTVENAKCVQANAFIQAGIFQEFKVQEESVTFRINLTVLLDCLSIF GSSPMPGTLTALRMICYQGYGYPLMLFLEEGGVTVCKINTQEPEETLDFDFCSTNVI NKIILQSEGLREAFSELDMTSEVLQITMSPDKPYFRLSTFGNAGSSHLDYPKDSLME AFHCNQTQVNRYKISLLKPSTKALVLSCKVSIRTDNRGFLSLQYMIRNEDGQICFVEY YCCPDDEEVPESSES
Sequence Similarities	Belongs to the rad1 family.
GENE INFORMATION	
Gene Name	RAD1 RAD1 homolog (<i>S. pombe</i>) [<i>Homo sapiens</i>]
Official Symbol	RAD1
Synonyms	RAD1; RAD1 homolog (<i>S. pombe</i>); RAD1 (<i>S. pombe</i>) homolog; cell cycle checkpoint protein RAD1; cell cycle checkpoint protein Hrad1; checkpoint control protein HRAD1; DNA repair exonuclease REC1; exonuclease homolog RAD1; HRAD1; Rad1 like DNA damage checkpoin
Gene ID	5810

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mRNA Refseq	NM_002853
Protein Refseq	NP_002844
MIM	603153
Uniprot ID	O60671
Chromosome Location	5p13
Pathway	Activation of ATR in response to replication stress, organism-specific biosystem; Cell Cycle Checkpoints, organism-specific biosystem; G2/M Checkpoints, organism-specific biosystem; Regulation of Telomerase, organism-specific biosystem;
Function	3-5 exonuclease activity; damaged DNA binding; exodeoxyribonuclease III activity; hydrolase activity; protein binding;

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